4719

Thr Ser Asp Thr Lys Ser Asp Thr Ala Thr Gly Gly Glu Ser Ala Gly
    210   215   220

His Ala Thr Ser Ser Gln Glu Pro Ser Gly Cys Ser Asp Gln Arg Pro
225   230   235   240

Ala Glu Asp Leu Asn Ile Arg Val Glu Arg Leu Thr Lys Lys Leu Glu
                245   250   255

Glu Arg Arg Glu Glu Lys Arg Lys Glu Glu Glu Gln Arg Glu Ile Lys
            260   265   270

Lys Glu Ile Glu Arg Arg Lys Thr Gly Lys Glu Met Leu Asp Tyr Lys
            275   280   285

Arg Lys Gln Glu Glu Glu Leu Thr Lys Arg Met Leu Glu Glu Arg Asn
    290   295   300

Arg Glu Lys Ala Glu Asp Arg Ala Ala Arg Glu Arg Ile Lys Gln Gln
305   310   315   320

Ile Ala Leu Asp Arg Ala Glu Arg Ala Ala Arg Phe Ala Lys Thr Lys
            325   330   335

Glu Glu Val Glu Ala Ala Lys Ala Ala Ala Leu Leu Ala Lys Gln Ala
            340   345   350

Glu Met Glu Val Lys Arg Glu Ser Tyr Ala Arg Glu Arg Ser Thr Val
    355   360   365

Ala Arg Ile Gln Phe Arg Leu Pro Asp Gly Ser Ser Phe Thr Asn Gln
    370   375   380

Phe Pro Ser Asp Ala Pro Leu Glu Glu Ala Arg Gln Phe Ala Ala Gln
385   390   395   400

Thr Val Gly Asn Thr Tyr Gly Asn Phe Ser Leu Ala Thr Met Phe Pro
            405   410   415

Arg Arg Glu Phe Thr Lys Glu Asp Tyr Lys Lys Lys Leu Leu Asp Leu
            420   425   430

Glu Leu Ala Pro Ser Ala Ser Val Val Leu Leu Pro Ala Gly Arg Pro
    435   440   445

Thr Ala Ser Ile Val His Ser Ser Ser Gly Asp Ile Trp Thr Leu Leu
    450   455   460

Gly Thr Val Leu Tyr Pro Phe Leu Ala Ile Trp Arg Leu Ile Ser Asn
465   470   475   480

4720

```
Phe Leu Phe Ser Asn Pro Pro Pro Thr Gln Thr Ser Val Arg Val Thr
              485             490             495

Ser Ser Glu Pro Pro Asn Pro Ala Ser Ser Ser Lys Ser Glu Lys Arg
          500             505             510

Glu Pro Val Arg Lys Arg Val Leu Glu Lys Arg Gly Asp Asp Phe Lys
          515             520             525

Lys Glu Gly Lys Ile Tyr Arg Leu Arg Thr Gln Asp Asp Gly Glu Asp
    530             535             540

Glu Asn Asn Thr Trp Asn Gly Asn Ser Thr Gln Gln Met
545             550             555
```

```
<210> 5286
<211> 43
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (25)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (39)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5286
Asn Asp Gln Asn Pro Glu Ser Gln Trp Ser Asn Asn Lys His Thr Gln
  1             5             10             15

Ile Asp Cys Leu Ile Asn Ser Phe Xaa Leu Val Phe Lys Ser Asn Thr
              20             25             30

Phe Phe Lys Ser Pro Leu Xaa Lys Met Ile Ile
          35             40
```

```
<210> 5287
<211> 143
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
```

4721

<222> (4)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (5)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (8)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (41)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5287
Thr Gly Trp Xaa Xaa Cys Pro Xaa Pro Gly Pro Gly Arg Arg Thr Met
  1   5   10   ·   15

Ser Arg Gln Lys Glu Thr Leu Gln Ser Ala Phe Pro Ser Met Cys Ala
              20   25   30

Leu Cys Pro Ser Glu Pro Ala Asp Xaa Arg Gly Gly Lys Asp Thr Val
          35 ·   40   45

Leu Asn Glu Gln Asn Leu Gln Asp Thr Gln Ser Cys Leu Phe Ala Thr
      50   55   60

Trp Pro Tyr Ala Cys Pro Val Phe Ser Leu Lys Ala Phe Thr His Ala
 65   70   75   80

Arg Ala Val Thr Trp Asn Val Leu Ser Ile Thr Pro Ala Val Met Pro
                  85   90   95

Ser Thr Glu Leu Asp Gly Arg Pro Leu His Gly Ser Leu Lys Arg Ser
              100   105   110

His Pro Ser Asn Trp Val Cys His Arg His Thr Gly Ser Cys Leu Pro
          115   120   125

Val Leu Pro Val Val Ile Val Met Arg Ile Val Val Leu His Pro
      130   135   140

<210> 5288
<211> 48
<212> PRT

4722

<213> Homo sapiens

<400> 5288
Ser Gly Gln Glu Pro Gly Phe Gln Gln Arg Glu Leu Glu Asn Glu Pro
1   5   10   15

Arg Gly Ala Gly Ala Gly Gly Val Gly Glu Cys Gln Arg Ala Gly Met
            20   25   30

Asn Trp Gln Val Ala Trp Arg Gly Gly Leu Val Pro Lys Pro Val Leu
        35   40   45

<210> 5289
<211> 232
<212> PRT
<213> Homo sapiens

<400> 5289
Pro Ala Ser Ala Thr Thr Arg Thr Gly Pro Arg Pro Gly Pro Ala Pro
1   5   10   15

Arg Cys Pro Leu Pro Ala Pro Gly His Ser Cys Thr Gln Ala Pro Pro
            20   25   30

Arg Glu His Thr Ala Val His Thr Arg Glu Lys Gln Gln Leu Ala Ser
            35   40   45

Leu Val Gly Thr Met Leu Ala Tyr Ser Leu Thr Tyr Arg Gln Glu Arg
        50   55   60

Thr Pro Asp Gly Gln Tyr Ile Tyr Arg Leu Glu Pro Asn Val Glu Glu
65   70   75   80

Leu Cys Arg Phe Pro Glu Leu Pro Ala Arg Lys Pro Leu Thr Tyr Gln
            85   90   95

Thr Lys Gln Leu Ile Ala Arg Glu Ile Glu Val Glu Lys Met Arg Arg
            100   105   110

Ala Glu Ala Ser Ala Arg Val Glu Asn Ser Pro Gln Val Asp Gly Ser
            115   120   125

Pro Pro Gly Leu Glu Gly Leu Leu Gly Gly Ile Gly Glu Lys Gly Val
            130   135   140

His Arg Pro Ala Pro Arg Asn His Glu Gln Arg Leu Glu His Ile Met

4723

145   150   155   160

Arg Arg Ala Ala Arg Glu Glu Gln Pro Glu Lys Asp Phe Phe Gly Arg
                165   170   175

Val Val Val Arg Ser Thr Ala Val Pro Ser Ala Gly Asp Thr Ala Pro
                180   185   190

Glu Gln Asp Ser Val Glu Arg Arg Met Gly Thr Ala Val Gly Arg Ser
            195   200   205

Glu Val Trp Phe Arg Phe Asn Glu Gly Val Ser Asn Ala Val Arg Arg
        210   215   220

Ser Leu Tyr Ile Arg Asp Leu Leu
225   230

<210> 5290
<211> 92
<212> PRT
<213> Homo sapiens

<400> 5290
Ser Ile Thr Cys His Arg Glu Ser Glu Phe Leu Tyr Cys Leu Pro Ala
   1   5   10   15

Ala Arg Thr Lys Ser Glu Trp Trp Gly Pro Arg Ser Ser Gln Leu Gly
                20   25   30

Glu Lys Ala Leu Pro Asp Pro Gly Thr Arg Gly Leu Gly Gln Glu Ala
                35   40   45

Gly Arg Met Gly Gly Cys Asp His Arg His Thr His Thr Arg Ser Leu
        50   55   60

Ser Ser Gly Lys Gly Phe Pro Glu Ala Phe Ala His Thr Leu Asn Glu
65   70   75   80

Val Phe Ser Cys Gln Ala Lys Pro Pro Glu Glu Lys
                85   90

<210> 5291
<211> 40
<212> PRT
<213> Homo sapiens

<220>

<221> SITE
<222> (38)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (40)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5291
Thr Ile Lys Cys Leu Leu Leu Tyr Lys Lys Lys Lys Lys Lys Lys Lys
 1   5   10   15

Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
            20   25   30

Lys Lys Lys Lys Gly Xaa Pro Xaa
        35   40

<210> 5292
<211> 50
<212> PRT
<213> Homo sapiens

<400> 5292
Val Glu Asn Leu Gln Arg Asn Asp Gly Cys Lys Trp Thr Cys Lys Pro
 1   5   10   15

Lys Leu Gly Ile Gly Glu Val Arg Leu Thr Arg Leu Leu Val Arg Val
            20   25   30

Leu Leu Asn Ser Leu Leu Met Arg Arg Cys Leu Asp Lys Tyr Lys Leu
        35   40   45

Arg Lys
    50

<210> 5293
<211> 57
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (6)
<223> Xaa equals any of the naturally occurring L-amino acids

4725

```
<400> 5293
Lys Pro Leu Ala Lys Xaa Arg Gly Ile Phe Phe Phe Ile Phe Lys Cys
1               5                   10                  15

Leu Gly Thr Lys Pro Lys Ser Lys Arg Leu Thr Lys His Val Ser Leu
            20              25              30

Lys Ala Thr Cys Ile Leu Gln Tyr Asn Ile Lys Leu Phe Asn Leu Arg
        35              40              45

Asn Leu Val Leu Leu Ile Cys Thr Phe
    50              55


<210> 5294
<211> 40
<212> PRT
<213> Homo sapiens

<400> 5294
Arg Thr Phe Met Lys Arg Trp Asn Cys Ser Tyr Lys Phe Phe Leu Leu
1               5                   10                  15

Leu Leu Phe Leu Asn Met Pro Trp Asn Asn Ser Thr Ile Phe Ser Pro
            20              25              30

Ser Ile Asn Leu Ser Asn Lys Ala
        35              40


<210> 5295
<211> 49
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (37)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (48)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (49)
<223> Xaa equals any of the naturally occurring L-amino acids
```

```
<400> 5295
Asn Cys Glu Asp Ile Leu Lys Leu Cys Leu Val Tyr Lys Tyr Lys Asp
 1               5               10                  15

Phe His Thr Asp Asn Tyr Gln Ile Pro Asn Thr Phe Thr Gly Lys Lys
                20                  25                  30

Pro Ser Val Lys Xaa Leu Pro Gly Ser Ser Ser Leu Lys Phe Ser Xaa
            35              40                  45

Xaa
```

```
<210> 5296
<211> 79
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (4)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (27)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (56)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (77)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (79)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5296
Thr Thr Leu Xaa Arg Arg Ser Ser Leu Leu Asn Tyr Ile His Pro Asp
 1               5               10                  15

Cys Gly Asp Asn His Thr Pro Gln Phe Arg Xaa Tyr Tyr Tyr Tyr Gln
```

4727

```
            20                    25                    30

Ser Val Gln Gly Leu Cys Trp Leu Ile Leu Phe Phe Tyr Pro Leu Tyr
          35                    40                    45

His Tyr Ser Pro Ile Ser Ser Xaa Thr Phe Ile Ser Lys Asn Leu Ile
      50                    55                    60

Val Trp His Leu Ser Leu Asp Met Glu Cys Phe Phe Xaa Lys Xaa
65                    70                    75
```

```
<210> 5297
<211> 59
<212> PRT
<213> Homo sapiens

<400> 5297
Met Phe Gly Leu Tyr Leu Val Leu Asp Pro Glu Leu Pro Phe Ser Lys
 1               5                    10                    15

Tyr Leu Asn Asp Tyr Tyr Tyr Phe Ile Ser Leu Phe Tyr Thr His Thr
              20                    25                    30

Arg Thr His Thr His Arg Glu Met Leu Phe Met Arg Phe Cys Ile Phe
          35                    40                    45

His Ile Leu His Ile Leu Tyr Met Ile Asp Glu
      50                    55
```

```
<210> 5298
<211> 183
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (107)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (111)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (123)
```

4728

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5298

```
Gln Gly Phe Glu Arg Gln Thr Thr Ala Ala Val Gly Val Leu Lys Ala
 1               5                  10                  15

Val His Cys Gly Glu Trp Pro Asp Gln Pro Arg Leu Thr Lys Asp Val
                 20                  25                  30

Ile Cys Phe His Ala Glu Asp Phe Leu Glu Val Val Gln Arg Met Gln
             35                  40                  45

Leu Asp Leu His Glu Pro Pro Leu Ser Gln Cys Val Gln Trp Val Asp
         50                  55                  60

Asp Ala Lys Leu Asn Gln Leu Arg Arg Glu Gly Ile Arg Tyr Ala Arg
 65                  70                  75                  80

Ile Gln Leu Tyr Asp Asn Asp Ile Tyr Phe Ile Pro Arg Asn Val Val
             85                  90                  95

His Gln Phe Lys Thr Val Ser Ala Val Cys Xaa Leu Ala Trp Xaa Ile
            100                 105                 110

Arg Leu Lys Leu Tyr His Ser Glu Glu Asp Xaa Ser Gln Asn Thr Ala
            115                 120                 125

Thr His Glu Thr Gly Thr Ser Ser Asp Ser Thr Ser Ser Val Leu Gly
        130                 135                 140

Pro His Thr Asp Asn Met Ile Cys Ala Val Ser Lys Pro Pro Trp Ile
145                 150                 155                 160

Leu Phe Phe Gln Ile Asn Phe Ile Leu Asn Met Asn Tyr Ser Arg Leu
                165                 170                 175

Asn Met Asn Leu Leu His Leu
                180
```

<210> 5299
<211> 68
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (20)
<223> Xaa equals any of the naturally occurring L-amino acids

4729

<400> 5299
Ile Ser His Phe Trp Glu Gln Thr Pro Ile Lys Val Pro Gly Asp Tyr
1   5   10   15

Leu Gln Trp Xaa Ala Glu Gln Lys Ile Ser Ala Val Leu Ile Ile Val
            20   25   30

Val Thr Trp Val Thr Pro Pro Asn Thr Leu Cys Glu Leu Ser Glu Ile
        35   40   45

Phe Gly Asn Phe Leu Met Tyr Ile Leu Glu Ile Leu Asn Val Gln Ile
    50   55   60

Trp Ser Ser Ile
65

<210> 5300
<211> 93
<212> PRT
<213> Homo sapiens

<400> 5300
Trp Gln Ser Val His Arg Ser Trp Leu Leu Ser Leu Leu Asn Leu Cys
1   5   10   15

Lys Arg Ser Leu Ser Asp Glu Gly Arg Ile Met Val Leu Leu Ala Leu
            20   25   30

Ala Phe Pro Phe Cys Asp Leu Lys Ala Ser Ser Leu Arg Pro His Ser
        35   40   45

Met Ala Pro Val Pro Tyr Ser His Ser Cys Leu Leu Lys Leu Pro Thr
    50   55   60

Leu Leu Asn Cys Phe Trp Gly Glu Glu His Phe Phe Leu Lys Gln Asn
65   70   75   80

Arg Tyr Met Lys Gln Tyr Thr Gly Ile Asn Thr Asn Ile
            85   90

<210> 5301
<211> 75
<212> PRT
<213> Homo sapiens

<220>
<221> SITE

4730

```
<222> (46)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (47)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (48)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (57)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (65)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (71)-
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5301
Phe Ser Pro Lys Ala Val Leu Leu Arg Leu Cys Phe Thr Ser Ile Tyr
 1           5                  10                  15

Lys Leu Tyr Val Lys Cys Cys His Lys Glu Val Ser Glu Ala Val Gly
            20                  25                  30

His Thr Gln Gly Arg Ala Glu Lys Tyr Leu Val Val Cys Xaa Xaa Xaa
        35                  40                  45

Lys Pro Trp Met Ala Ala Ala Thr Xaa Pro Ala Tyr Pro Phe Thr Ala
    50                  55                  60

Xaa Val Tyr Ser Leu Arg Xaa Leu Thr Thr Arg
65                  70                  75


<210> 5302
<211> 82
<212> PRT
<213> Homo sapiens
```

4731

<400> 5302

```
Glu Leu Pro Ser Lys Arg Gln Ala Phe Val Ile Ser Met Glu Phe Glu
 1               5                   10              15

Gly Ser Trp Thr Ile Cys Lys Asp Ile Leu Thr Cys Ser Leu Arg Ser
              20                   25               30

Leu Ser Ser Ser Lys Arg Met Ala Arg Val Cys Gly Ile Ile Leu Ser
              35                   40               45

Thr Tyr Cys Cys Phe Phe Val Val Leu Leu Met Gln Val Ile Ile Tyr
        50                   55               60

Phe Leu Gly Val Ile Trp Arg Lys Ser Met Arg Gln Ala Cys Phe Ser
65                   70               75                   80

Pro Val
```

<210> 5303
<211> 272
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (220)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5303

```
Asp Cys Val Thr Glu Leu Ser Val His His Arg Asn Asn Arg Gln Thr
 1               5                   10              15

Met Glu Asp Leu Ile Ser Leu Trp Gln Tyr Asp His Leu Thr Ala Thr
              20                   25               30

Tyr Leu Leu Leu Leu Ala Lys Lys Ala Arg Gly Lys Pro Val Arg Leu
              35                   40               45

Arg Leu Ser Ser Phe Ser Cys Gly Gln Ala Ser Ala Thr Pro Phe Thr
        50                   55               60

Asp Ile Lys Ser Asn Asn Trp Ser Leu Glu Asp Val Thr Ala Ser Asp
65                   70               75                   80

Lys Asn Tyr Val Ala Gly Leu Ile Asp Tyr Asp Trp Cys Glu Asp Asp
                 85                   90               95

Leu Ser Thr Gly Ala Ala Thr Pro Arg Thr Ser Gln Phe Thr Lys Tyr
```

4732

```
                  100                 105                 110

Trp Thr Glu Ser Asn Gly Val Glu Ser Lys Ser Leu Thr Pro Ala Leu
        115                 120                 125

Cys Arg Thr Pro Ala Asn Lys Leu Lys Asn Lys Glu Asn Val Tyr Thr
        130                 135                 140

Pro Lys Ser Ala Val Lys Asn Glu Glu Tyr Phe Met Phe Pro Glu Pro
145                 150                 155                 160

Lys Thr Pro Val Asn Lys Asn Gln His Lys Arg Glu Ile Leu Thr Thr
                    165                 170                 175

Pro Asn Arg Tyr Thr Thr Pro Ser Lys Ala Arg Asn Gln Cys Leu Lys
                180                 185                 190

Glu Thr Pro Ile Lys Ile Pro Val Asn Ser Thr Gly Thr Asp Lys Leu
            195                 200                 205

Met Thr Gly Val Ile Ser Pro Glu Arg Arg Cys Xaa Gln Trp Asn Trp
    210                 215                 220

Ile Ser Thr Lys His Ile Trp Arg Arg Leu Gln Lys Glu Arg Glu Pro
225                 230                 235                 240

Lys Cys Leu Gly Ala Leu Lys Gly Gly Trp Ile Arg Leu Ser Leu Cys
                245                 250                 255

Ser Pro Gly Ala Lys Gly Arg Val Leu Pro Glu Thr Gly Pro Glu Asp
            260                 265                 270
```

<210> 5304
<211> 35
<212> PRT
<213> Homo sapiens

<400> 5304

```
Phe Leu Gly Ala Pro Ser Ile Cys Ala Gly Asp Glu Glu Gly Thr Glu
  1                 5                 10                  15

Ile Asp Thr Leu Gln Phe Arg Leu Gln Val Arg Cys Thr Arg Glu Pro
            20                  25                  30

Pro Cys Cys
        35
```

```
<210> 5305
<211> 99
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (38)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (42)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5305
Asp Phe Leu Lys Gly Ser Lys Ala Phe Ala Cys Tyr Leu Cys Phe Phe
 1               5                  10                  15

Ser Pro Lys Pro Lys Gln Lys Ile Met Pro Leu Cys Gln Thr Phe Leu
                20                  25                  30

Leu Gly Thr Ser Thr Xaa Ser Gln Leu Xaa Lys Tyr Asn Val Tyr Ile
             35                  40                  45

Ala Gln Phe Tyr Asn Leu Ser Met Ala Gln Ile Leu Glu Thr Tyr Lys
     50                  55                  60

Leu Asp Asp His Arg Asp Ile Val Val Asn Ile Trp Ala Trp Asn Gln
 65              70                  75                  80

Arg Thr Leu Gly Ser Asn Leu Ser Phe Lys Ser Lys Lys Leu Asn Ser
             85                  90                  95

Leu Ala Glu


<210> 5306
<211> 66
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (38)
<223> Xaa equals any of the naturally occurring L-amino acids
```

4734

```
<220>
<221> SITE
<222> (53)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5306
Arg Phe Asn Phe Pro Ala Ser Pro Glu Ala Arg Tyr Gly His Asn Thr
 1               5                  10                  15

Lys Phe Cys Pro Arg Arg Leu Ser Lys Ile Val Trp Asp Phe Gln Glu
            20                  25                  30

Met Phe Leu Lys Ser Xaa Ala Gly Leu Ser Ser Cys Leu Leu Pro Leu
        35                  40                  45

Cys Trp Leu Glu Xaa Lys Asp His Gly Arg Arg Pro Ser Ser His Pro
    50                  55                  60

Gly Arg
65
```

```
<210> 5307
<211> 148
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (18)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5307
Val Leu Tyr His Cys Ala Ser Arg Tyr Arg Arg Arg Ala Arg Gln Thr
 1               5                  10                  15

Cys Xaa Pro Ser Tyr Thr Arg Ser Ala Asp Leu Pro Ser Arg Thr Pro
            20                  25                  30

Pro Val Glu Asp Leu Leu Glu Leu Ser Arg Ala Phe Trp Val Gly Ala
        35                  40                  45

Asp Gly Gly Gly Arg Val Arg Val Leu Gly Gly Thr Glu Ala His Glu
    50                  55                  60

Asp Gly Ile Pro Pro Glu Ser Met Asp His Tyr Ala Asp Gly His Arg
65                  70                  75                  80

Pro Gln His Cys His Leu Gly Tyr Arg Cys His Gly Arg Pro Gln Arg
```

4735

```
                    85                  90                      95

Glu Gly Leu Pro Arg Cys Leu Lys Val Pro Pro Val Asn Leu Ser Ser
            100             105             110

Val Ser Val Pro Phe Pro Val Thr His Arg Ala Gly Met Glu Phe Asn
        115             120             125

Gly Cys Ser Gly Gln Thr Leu Val His Gly Gln Thr Ser Leu Leu Trp
    130             135             140

Ile Leu Gln Asp
145
```

```
<210> 5308
<211> 77
<212> PRT
<213> Homo sapiens

<400> 5308
Met Lys Ile Phe Lys Leu Glu Leu Glu Glu Gly Val Val Glu Glu Gln
  1               5                 10                  15

Gly Val Leu Leu His Pro Glu Val Val Gly Leu Leu Leu Pro Ala Val
            20                  25                  30

Glu Pro Val Ile His Arg Glu Glu Val Leu Asp Gln Gln Glu Ala Phe
            35                  40                  45

Glu Val Arg Glu Glu Val Pro Asn Asn Lys Glu Ala Ala Gly Arg Glu
    50                  55                  60

Lys Gly Ser Arg Pro Val Leu Thr Cys Tyr Asn Glu Asp
  65                  70                  75
```

```
<210> 5309
<211> 704
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
```

4736

<222> (3)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5309

```
Xaa Gly Xaa Lys Gly Arg Glu Gly Lys Gly Gly Ser Arg Gly Gly Ala
1               5                  10                  15

Arg Ala His Arg Glu Arg Ala Arg Arg Arg Val Glu Leu Asp Arg Val
            20              25                  30

Cys Cys Gln Arg Arg Glu Leu Arg Pro Pro Phe Tyr Asn Ser Ser Thr
        35              40                  45

Arg Ala Gly His Arg Glu Gln Arg Ala Arg Val Ser Arg Asn Pro Ile
        50              55                  60

Pro Ser Asp Arg Ile Ser Pro Pro Gln Pro Asn Gly Glu Ile Ser Gly
65                  70                  75                  80

Asn Met Ala Thr Glu His Val Asn Gly Asn Gly Thr Glu Glu Pro Met
                85                  90                  95

Asp Thr Thr Ser Ala Val Ile His Ser Glu Asn Phe Gln Thr Leu Leu
            100                 105                 110

Asp Ala Gly Leu Pro Gln Lys Val Ala Glu Lys Leu Asp Glu Ile Tyr
            115                 120                 125

Val Ala Gly Leu Val Ala His Ser Asp Leu Asp Glu Arg Ala Ile Glu
    130                 135                 140

Ala Leu Lys Glu Phe Asn Glu Asp Gly Ala Leu Ala Val Leu Gln Gln
145                 150                 155                 160

Phe Lys Asp Ser Asp Leu Ser His Val Gln Asn Lys Ser Ala Phe Leu
                165                 170                 175

Cys Gly Val Met Lys Thr Tyr Arg Gln Arg Glu Lys Gln Gly Thr Lys
            180                 185                 190

Val Ala Asp Ser Ser Lys Gly Pro Asp Glu Ala Lys Ile Lys Ala Leu
            195                 200                 205

Leu Glu Arg Thr Gly Tyr Thr Leu Asp Val Thr Thr Gly Gln Arg Lys
    210                 215                 220

Tyr Gly Gly Pro Pro Pro Asp Ser Val Tyr Ser Gly Gln Gln Pro Ser
225                 230                 235                 240

Val Gly Thr Glu Ile Phe Val Gly Lys Ile Pro Arg Asp Leu Phe Glu
            245                 250                 255
```

4737

```
Asp Glu Leu Val Pro Leu Phe Glu Lys Ala Gly Pro Ile Trp Asp Leu
        260             265             270

Arg Leu Met Met Asp Pro Leu Thr Gly Leu Asn Arg Gly Tyr Ala Phe
        275             280             285

Val Thr Phe Cys Thr Lys Glu Ala Ala Gln Glu Ala Val Lys Leu Tyr
    290             295             300

Asn Asn His Glu Ile Arg Ser Gly Lys His Ile Gly Val Cys Ile Ser
305             310             315             320

Val Ala Asn Asn Arg Leu Phe Val Gly Ser Ile Pro Lys Ser Lys Thr
            325             330             335

Lys Glu Gln Ile Leu Glu Glu Phe Ser Lys Val Thr Glu Gly Leu Thr
        340             345             350

Asp Val Ile Leu Tyr His Gln Pro Asp Asp Lys Lys Lys Asn Arg Gly
        355             360             365

Phe Cys Phe Leu Glu Tyr Glu Asp His Lys Thr Ala Ala Gln Ala Arg
        370             375             380

Arg Arg Leu Met Ser Gly Lys Val Lys Val Trp Gly Asn Val Gly Thr
385             390             395             400

Val Glu Trp Ala Asp Pro Ile Glu Asp Pro Asp Pro Glu Val Met Ala
            405             410             415

Lys Val Lys Val Leu Phe Val Arg Asn Leu Ala Asn Thr Val Thr Glu
        420             425             430

Glu Ile Leu Glu Lys Ala Phe Ser Gln Phe Gly Lys Leu Glu Arg Val
        435             440             445

Lys Lys Leu Lys Asp Tyr Ala Phe Ile His Phe Asp Glu Arg Asp Gly
    450             455             460

Ala Val Lys Ala Met Glu Glu Met Asn Gly Lys Asp Leu Glu Gly Glu
465             470             475             480

Asn Ile Glu Ile Val Phe Ala Lys Pro Pro Asp Gln Lys Arg Lys Glu
            485             490             495

Arg Lys Ala Gln Arg Gln Ala Ala Lys Asn Gln Met Tyr Asp Asp Tyr
        500             505             510

Tyr Tyr Tyr Gly Pro Pro His Met Pro Pro Pro Thr Arg Gly Arg Gly
        515             520             525
```

```
Arg Gly Gly Arg Gly Gly Tyr Gly Tyr Pro Pro Asp Tyr Tyr Gly Tyr
    530             535             540

Glu Asp Tyr Tyr Asp Tyr Tyr Gly Tyr Asp Tyr His Asn Tyr Arg Gly
545             550             555             560

Gly Tyr Glu Asp Pro Tyr Tyr Gly Tyr Glu Asp Phe Gln Val Gly Ala
            565             570             575

Arg Gly Arg Gly Gly Arg Gly Ala Arg Gly Ala Ala Pro Ser Arg Gly
        580             585             590

Arg Gly Ala Ala Pro Pro Arg Gly Arg Ala Gly Tyr Ser Gln Arg Gly
        595             600             605

Gly Pro Gly Ser Ala Arg Gly Val Arg Gly Ala Arg Gly Gly Ala Gln
    610             615             620

Gln Gln Arg Gly Arg Gly Val Arg Gly Ala Arg Gly Gly Arg Gly Gly
625             630             635             640

Asn Val Gly Gly Lys Arg Lys Ala Asp Gly Tyr Asn Gln Pro Asp Ser
            645             650             655

Lys Arg Arg Gln Thr Asn Asn Gln Asn Trp Gly Ser Gln Pro Ile Ala
            660             665             670

Gln Gln Pro Leu Gln Gly Gly Asp His Ser Gly Asn Tyr Gly Tyr Lys
        675             680             685

Ser Glu Asn Gln Glu Phe Tyr Gln Asp Thr Phe Gly Gln Gln Trp Lys
    690             695             700
```

```
<210> 5310
<211> 69
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (9)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
```

4739

<222> (23)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5310
Asp Tyr Ala Leu Ser Asn Thr Thr Xaa Tyr Arg Glu Lys Leu Val Arg
 1   5   10   15

Leu Gln Val Pro Val Arg Xaa Phe Pro Gly Arg Pro Thr Arg Pro Trp
            20   25   30

Glu Thr Glu Gln Asp Ser Val Ser Lys Lys Asn Lys Asn Lys Asn Lys
        35   40   45

Lys Thr Glu Gly Gln Ala Gln Val Lys Tyr Pro Ile Phe Ile Leu Ser
     50   55   60

Arg Gly Ile Lys Lys
 65

<210> 5311
<211> 116
<212> PRT
<213> Homo sapiens

<400> 5311
Cys Ser Asn Cys Pro Lys Leu Trp Pro Lys Lys Ala Pro Ser Asn Trp
 1   5   10   15

Leu Leu Cys Pro Phe Asp Met Ala His His Ser Leu Asn Thr Phe Tyr
            20   25   30

Ile Trp His Asn Asn Val Leu His Thr His Leu Val Phe Phe Leu Pro
        35   40   45

His Leu Leu Asn Gln Pro Phe Ser Arg Gly Ser Phe Leu Ile Trp Leu
     50   55   60

Leu Leu Cys Trp Asn Ser Trp Tyr His Leu Arg Thr Leu Arg Arg Gln
 65   70   75   80

Ala Asn Gln Ala Asn Lys Leu Ser Met Met Leu Leu Arg Val Lys Gln
            85   90   95

Ser Pro Gly Thr Lys Leu Cys His Gly Asp Ser Glu Leu Thr Ser Gly
            100   105   110

Leu Leu Ala Thr
        115

```
<210> 5312
<211> 100
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (28)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (81)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (89)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5312
Val Thr Ile Ile Ile Ser Ala Ser Pro Thr Gln Val Thr Leu Leu Gly
  1               5                  10                  15

Ser Pro Val Cys Pro His Leu Glu Val Thr Ala Xaa Pro Trp Arg Trp
             20                  25                  30

Asp Ser Ile Leu Ser Pro Gly Cys Leu Pro Pro Val Arg Arg Pro Val
             35                  40                  45

Ser Trp Cys Val Thr Ser Gly Arg Cys Gln Ala Cys Phe Pro Pro Ser
     50                  55                  60

Phe Pro Pro Gln Arg Ala Arg Thr Asn His Gln Cys His His Thr Ser
 65                  70                  75                  80

Xaa Trp Pro Glu Asn Phe Met Asp Xaa Phe Thr Cys Ala Ile Val Asn
                 85                  90                  95

Leu Arg Arg Pro
            100


<210> 5313
<211> 63
<212> PRT
<213> Homo sapiens
```

4741

<400> 5313
Val Pro Gly Glu Ala Glu Leu Glu Arg Ala Val Glu Ala Phe Pro Leu
 1   5   10   15

Leu Val Glu Ser Tyr Ala Pro His Ser Gly Ser Glu Leu Gln Leu Leu
                20   25   30

Ser Arg Thr Thr Thr Glu Ser Gly Ile Arg Val Lys Asn Thr Ser Pro
            35   40   45

Thr Pro Pro Leu Leu His Pro Arg Arg Phe His Val Phe Asn Leu
        50   55   60

<210> 5314
<211> 269
<212> PRT
<213> Homo sapiens

<400> 5314
Asp Ser Gly Ser Cys Gly Pro Asp Pro Lys Cys Gly Asp Leu Arg Arg
 1   5   10   15

Ile Lys Gly Leu Cys Lys Phe Ala Asn Met Phe Thr Leu Ser Gln Thr
                20   25   30

Ser Arg Ala Trp Phe Ile Asp Arg Ala Arg Gln Ala Arg Glu Glu Arg
            35   40   45

Leu Val Gln Lys Glu Arg Glu Arg Ala Ala Val Val Ile Gln Ala His
        50   55   60

Val Arg Ser Phe Leu Cys Arg Ser Arg Leu Gln Arg Asp Ile Arg Arg
65   70   75   80

Glu Ile Asp Asp Phe Phe Lys Ala Asp Asp Pro Glu Ser Thr Lys Arg
                85   90   95

Ser Ala Leu Cys Ile Phe Lys Ile Ala Arg Lys Leu Leu Phe Leu Phe
                100   105   110

Arg Ile Lys Glu Asp Asn Glu Arg Phe Glu Lys Leu Cys Arg Ser Ile
            115   120   125

Leu Ser Ser Met Asp Ala Glu Asn Glu Pro Lys Val Trp Tyr Val Ser
        130   135   140

Leu Ala Cys Ser Lys Asp Leu Thr Leu Leu Trp Ile Gln Gln Ile Lys
145   150   155   160

4742

```
Asn Ile Leu Trp Tyr Cys Cys Asp Phe Leu Lys Gln Leu Lys Pro Glu
            165                 170                 175

Ile Leu Gln Asp Ser Arg Leu Ile Thr Leu Tyr Leu Thr Met Leu Val
            180                 185                 190

Thr Phe Thr Asp Thr Ser Thr Trp Lys Ile Leu Arg Gly Lys Gly Glu
        195                 200                 205         .

Ser Leu Arg Pro Ala Met Asn His Ile Cys Ala Asn Ile Met Gly His
    210             215                 220

Leu Asn Gln His Gly Phe Tyr Ser Val Leu Gln Cys Cys Asp Gly Leu
225             230                 235                 240

Phe Pro Asp Leu Val Ser Tyr Ala Pro His Asn Asn Pro Val Arg Trp
            245                 250                 255

Ser Val Gly Arg Ser Trp Tyr Asp Trp Gln Leu Ser Arg
            260                 265
```

```
<210> 5315
<211> 118
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (25)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (94)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5315
Gly Gln Ala Arg Val Leu Pro Leu Met Gln Ile Pro Thr Arg Glu Met
1               5                   10                  15

Ser Arg Gly Arg Leu Leu Ser Glu Xaa Leu Gln Pro Lys Gly Cys Ser
            20                  25                  30

Ile Ala Ile Pro Phe Pro Trp Ser Cys Gln Leu Phe Ser Gly Gln Gly
            35                  40                  45

Pro Trp Gly Arg Trp Ser Lys Pro Ser Pro Gln Ala Gly Gly Leu Glu
    50                  55                  60
```

4743

```
Ser Thr Arg Lys Gly Ser Thr Trp Phe Tyr Glu Gly Ile Leu Gly Gly
65              70          75              80

Ala Thr Pro His Leu Pro Pro Thr Tyr Thr Phe Cys Cys Xaa Lys Cys
            85              90              95

Leu Ile Pro His Asp Val Ser Leu Ser Phe Gln Gln Lys Lys Val Lys
            100             105             110

Leu Trp Val Val Glu Pro
        115
```

```
<210> 5316
<211> 83
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (39)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (50)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5316
Ala Glu Arg Ser Leu Lys Ile Leu Pro Leu Leu Lys Lys Leu Leu Lys
 1              5              10          15

Ser Asn Asp His Glu Cys Met Leu Gly His Leu Cys Met Tyr Ile Gln
            20              25              30

Ile Asp Arg Met Asp Phe Xaa Lys Asn Gly Ile Thr Ile Val Leu Gln
            35              40              45

Trp Xaa Lys Lys Tyr Gly Ile Leu Pro His Ser Leu Asn Leu Gly Gly
        50              55              60

Ile Gln Lys Ala Leu Leu Lys Pro Ser Asn Lys Leu Asp Gln Leu Ser
65              70              75              80

Leu Asp Leu
```

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<210> 5317
```

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<211> 77
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (8)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (17)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (20)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (47)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5317
Leu Leu Arg Arg Gly Phe Ile Xaa Gly Phe Tyr Asn Ala Asn Val Val
 1               5                  10                  15

Xaa Leu Arg Xaa Lys Asn Trp Gln Leu Glu Ser Leu Ser Leu Ile Ser
            20                  25                  30

Lys Gly Asn Pro Asp Phe Phe Val Asn Tyr Val Arg Gln Val Xaa Tyr
            35                  40                  45

Gly Phe Leu Tyr Glu Leu Gln Phe Thr Val His Gln Ile Leu Val Ser
            50                  55                  60

Glu Glu Leu Ile Tyr Val Lys Cys Leu Lys Ile Tyr Thr
65                  70                  75


<210> 5318
<211> 65
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (41)
<223> Xaa equals any of the naturally occurring L-amino acids
```

4745

<400> 5318
Ser Pro Gly Gly Arg Ser Ser Leu Leu Leu Ser Pro Val Val Ser Arg
 1   5   10   15

Thr Ser Cys Pro Asp Leu Pro Trp Ser Cys Leu Ser Asp Ser Leu His
            20   25   30

Gln Gly His Pro Thr Ala Ser Lys Xaa Ala Phe Pro Trp Thr Asn Ala
        35   40   45

Thr Ala Thr Phe Met Cys Glu Ala Lys Ile Thr Leu Gln Gln Ser Gln
    50   55   60

Tyr
 65

<210> 5319
<211> 132
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (131)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (132)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5319
Pro Ala Gly Glu Ser Ser Pro Ala Pro Trp Leu Lys Gly Pro Gly Ala
 1   5   10   15

His Leu Pro Glu Ala Arg Cys Gly Gly Gly Pro Arg Gly Arg Ser Gln
            20   25   30

Ala Gln Ser Pro Gln Ser Ser Gly Pro Val Gly Gly Arg Gly Arg Ser
        35   40   45

Gly Ser Lys Ala Arg Thr Pro Gln Leu Phe Arg Leu Gln Gln Gln Leu
    50   55   60

Gln Arg Phe Gly His Gly Cys Glu Val Pro Arg Cys Trp Leu Gln Ala
 65   70   75   80

Ala Arg Glu His Pro Gly Gln Gly Gln Glu Ala Gln Ser Glu Glu Glu

```
                85                    90                      95
Gly Glu Gly Gln Glu Gly Glu Gly Gln Glu Glu Gly Gly Ser Pro Leu
            100                 105                 110
Lys Gly Pro Gly Gln Gly Ser Leu Asn Leu Pro Leu Cys Leu Gln Lys
            115                 120                 125
Lys Lys Xaa Xaa
        130
```

<210> 5320
<211> 48
<212> PRT
<213> Homo sapiens

<400> 5320

```
Leu Ser Ser Ile Cys Leu Asn Ile Ser Ser Leu Gly Asp Ser Ser Pro
 1               5               10                  15
Leu Cys Leu Val Ala Asn Cys Asn Ser Pro Cys Gly Pro Thr Glu Tyr
            20                  25                  30
His Ser Thr Ala Phe Leu Asp Ile Tyr Asp Val Leu Thr Ile Gln Val
            35                  40                  45
```

<210> 5321
<211> 63
<212> PRT
<213> Homo sapiens

<400> 5321

```
Lys Glu Trp His Cys Phe Tyr Ile Phe Ala His Leu Phe His Ala Arg
 1               5                   10                  15
Leu Asn Arg Asn Ser Tyr Leu Leu Val Arg Val Val Cys Cys Asn Ile
            20                  25                  30
Thr Tyr His Val Thr Ser Gly Lys Pro His Cys Met His Val Arg Glu
            35                  40                  45
Gly Glu Ser His Val Arg Val Val Ile Lys Ile Val Leu Thr Leu
    50                  55                  60
```

<210> 5322
<211> 87
<212> PRT
<213> Homo sapiens

<400> 5322
Met Arg Arg Arg Val Phe Phe Leu His Arg Cys Ser Ile Leu Val Phe
 1   5   10   15

Leu Phe Pro Cys Lys Cys Asn Gln Met Pro Phe Tyr Met Trp Thr Tyr
            20   25   30

Leu Tyr Trp Pro Asn Ile Phe Phe Leu Leu Ser Leu Phe Phe Phe Pro
        35   40   45

Phe Phe Leu Leu Pro Leu Phe Leu Tyr Ser Phe Leu Phe Leu Phe Phe
    50   55   60

Phe Phe Phe Ser Phe Phe Phe Gly Ser Cys Cys Tyr Pro Arg His Phe
65   70   75   80

Thr Ser Pro Ser Leu Lys Gly
                85

<210> 5323
<211> 79
<212> PRT
<213> Homo sapiens

<400> 5323
Ile Gly Leu Lys Ala Asn Ser Gln Gly Ala Thr Asp Pro Phe His Asn
 1   5   10   15

Arg Met Leu Pro Val Asn Ser Leu Ser Ile Leu Leu Cys Pro Val Ser
            20   25   30

Lys Lys Lys Lys Lys Ser Arg Arg Val Ser Gln Ser Gly His Leu Ile
        35   40   45

Arg Asp Leu Ala Gln Glu Glu Glu Met Gly Arg Glu Ser Asp Gly Glu
    50   55   60

Gln His Ser Pro Trp Glu Pro Glu Val Gly Gly His Arg Ala Pro
65   70   75

```
<210> 5324
<211> 98
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (10)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5324
Glu Pro Ala Ala Thr Ala Ala Glu Thr Xaa Ser Cys Val Leu Cys Gly
 1               5                  10                  15

Leu Pro Ala Ala Gly Lys Ser Thr Phe Ala Arg Ala Leu Ala His Arg
            20                  25                  30

Leu Gln Gln Glu Gln Gly Trp Ala Ile Gly Val Val Ala Tyr Asp Asp
        35                  40                  45

Val Met Pro Asp Ala Phe Leu Ala Gly Ala Arg Ala Arg Pro Ala His
        50                  55                  60

Ser Gln Trp Lys Leu Leu Arg Gln Glu Leu Leu Lys Tyr Leu Glu Tyr
65                  70                  75                  80

Phe Leu Met Ala Val Ile Asn Gly Cys Gln Met Ser Val Pro Pro Asn
                85                  90                  95

Arg Thr
```

```
<210> 5325
<211> 178
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (4)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (5)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
```

4749

<222> (9)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (10)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (12)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (166)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5325
Gly Lys Gly Xaa Xaa Leu Pro Ile Xaa Xaa Ser Xaa Thr Phe Met Pro
  1   5   10   15

Asn Gly Cys Cys Lys Thr Cys Thr Pro Arg Asn Glu Thr Arg Val Pro
            20   25   30

Cys Ser Thr Val Pro Val Thr Thr Glu Val Ser Tyr Ala Gly Cys Thr
        35   40   45

Lys Thr Val Leu Met Asn His Cys Ser Gly Ser Cys Gly Thr Phe Val
    50   55   60

Met Tyr Ser Ala Lys Ala Gln Ala Leu Asp His Ser Cys Ser Cys Cys
65   70   75   80

Lys Glu Glu Lys Thr Ser Gln Arg Glu Val Val Leu Ser Cys Pro Asn
                85   90   95

Gly Gly Ser Leu Thr His Thr Tyr Thr His Ile Glu Ser Cys Gln Cys
            100   105   110

Gln Asp Thr Val Cys Gly Leu Pro Thr Gly Thr Ser Arg Arg Ala Arg
        115   120   125

Arg Ser Pro Arg His Leu Gly Ser Val Ser Gly Val Gly Thr Ala Pro
    130   135   140

Ser Leu Pro Ser Thr Ala Leu Pro Pro Pro Asp Pro Leu Ser Leu Leu
145   150   155   160

Lys Leu Gly Phe Leu Xaa Ser Asp Ile Tyr Cys Leu Ser Phe Cys Ser
            165   170   175

Val Leu

<210> 5326
<211> 51
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (6)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (7)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (13)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5326
Arg Gly Gly Gln Thr Xaa Xaa Pro Ala Gly Ala Arg Xaa Gly Thr Val
 1   5   10   15

Leu Asn Pro Gly Glu Thr Ala Lys Trp Lys Thr Tyr Arg Val Cys Ala
            20   25   30

Leu Pro Asp Phe Thr Val Leu Leu Gly His Phe Thr Tyr Val Pro Ala
            35   40   45

Val Ile Asn
        50

<210> 5327
<211> 50
<212> PRT
<213> Homo sapiens

<400> 5327
Pro Gln Leu Tyr Lys Leu Phe Phe Lys Thr Lys Tyr Phe Gln Val Tyr
 1   5   10   15

Leu Leu Thr Lys Asn Ile Ile Met Val Lys Thr Phe Leu Phe Asn Arg

4751

```
                    20                25                30

     Leu Val Ile Phe Leu Thr Ser Ile Phe Phe Asn Leu Ser Leu His Lys
                35                40                45

     Lys Asn
            50



     <210> 5328
     <211> 108
     <212> PRT
     <213> Homo sapiens

     <220>
     <221> SITE
     <222> (41)
     <223> Xaa equals any of the naturally occurring L-amino acids

     <220>
     <221> SITE
     <222> (93)
     <223> Xaa equals any of the naturally occurring L-amino acids

     <400> 5328
     Ser Val Tyr Leu Lys Arg Asn Leu Ile Phe Gln Gly Ser Asn Val Tyr
        1                5                10               15

     Val Phe Gln Val Val Leu Pro Thr Phe Ile Leu Glu Arg Arg Ser Leu
                    20                25                30

     Leu Glu Met Tyr Ala Asp Phe Phe Xaa His Pro Asp Leu Phe Val Arg
                35                40                45

     Tyr Leu Thr Glu His Gly Ser Phe Gln Arg Leu Gln Met Leu Leu Ser
            50                55                60

     Ser Phe Leu Pro Phe Ile Leu Gln Asp Arg Trp Ile Pro Cys His Leu
        65                70                75               80

     Ser Asn Ile Ser Gly Tyr Ser Val Val Leu Asn Asn Xaa Phe Thr Leu
                    85                90                95

     Val Ala Cys Leu Leu Lys Val Ile Trp Gly Arg Cys
                    100               105



     <210> 5329
     <211> 67
```

```
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (67)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5329
Leu Cys Met Ser Leu Gly Glu Cys Val Ser Ser Thr Val Ala Pro Arg
 1               5                  10                  15

Gly Ser Thr His Ser Leu Lys Leu Leu Leu Pro His Cys Thr Tyr Ser
             20                  25                  30

Leu Arg Leu Asn Trp Ser Gln Thr Asn Trp Asp Pro Ala Gln Ser Ser
         35                  40                  45

Ser Ser Gln Asn Glu Val Leu Arg Pro Gln Cys Val Arg Thr Cys Leu
     50                  55                  60

Ala Val Xaa
 65
```

```
<210> 5330
<211> 65
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (51)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5330
Ala Gln Phe Leu Gly His Ala Pro Val Cys Ser Asp Met Leu Leu Tyr
 1               5                  10                  15

Val Thr Glu Met Ala Met Ser Thr Gly Gly Lys Ile Thr Pro Thr Trp
             20                  25                  30

Glu Glu Glu Lys Pro Val Arg Gly Ser Thr Ala Gly Ala Ala Leu Ser
         35                  40                  45

Thr Glu Xaa Ser Cys Leu Pro Asp Ser Met Ala Phe Val Ser Ile Arg
     50                  55                  60

Val
 65
```

```
<210> 5331
<211> 63
<212> PRT
<213> Homo sapiens

<400> 5331
Ile Pro Ala Leu Leu Leu Thr Ser Leu Gly Pro Trp Arg Met Leu Ser
 1               5                   10                  15

Ile Ser Leu Ser Leu Ser Val Leu Leu Cys Lys Met Trp Met Ile Pro
                20                  25                  30

Asp Ser Gln Ala Phe Cys Gln Asp Tyr Met Gly Phe Leu His Ser Ala
            35                  40                  45

Met Ser Ser Asp Asn Ile Asn Thr Lys Ser Asn Leu Leu Asn Val
        50                  55                  60
```

```
<210> 5332
<211> 404
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (42)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (151)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (223)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5332
Met Pro Asp Gly Ala Thr Leu Ala Ile Gly Ser Ser Arg Gly Lys Ile
 1               5                   10                  15

Tyr Gln Tyr Asp Leu Arg Met Leu Lys Ser Pro Val Lys Thr Ile Ser
                20                  25                  30

Ala His Lys Thr Ser Val Gln Cys Ile Xaa Phe Gln Tyr Ser Thr Val
```

4754

```
              35                    40                    45

Leu Thr Lys Ser Ser Leu Asn Lys Gly Cys Ser Asn Lys Pro Thr Thr
     50                  55                  60

Val Asn Lys Arg Met Phe Asn Val Asn Ala Ala Ser Gly Gly Val Gln
 65                  70                  75                  80

Asn Ser Gly Ile Val Arg Glu Ala Pro Ala Thr Ser Ile Ala Thr Val
                 85                  90                  95

Leu Pro Gln Pro Met Thr Ser Ala Met Gly Lys Gly Thr Val Ala Val
             100                 105                 110

Gln Glu Lys Ala Gly Leu Pro Arg Ser Ile Asn Thr Asp Thr Leu Ser
         115                 120                 125

Lys Glu Thr Asp Ser Gly Lys Asn Gln Asp Phe Ser Ser Phe Asp Asp
     130                 135                 140

Thr Gly Lys Ser Ser Leu Xaa Asp Met Phe Ser Pro Ile Arg Asp Asp
145                 150                 155                 160

Ala Val Val Asn Lys Gly Ser Asp Glu Ser Ile Gly Lys Gly Asp Gly
                 165                 170                 175

Phe Asp Phe Leu Pro Gln Leu Asn Ser Val Phe Pro Pro Arg Lys Asn
             180                 185                 190

Pro Val Thr Ser Ser Thr Ser Val Leu His Ser Ser Pro Leu Asn Val
             195                 200                 205

Phe Met Gly Ser Pro Gly Lys Glu Glu Asn Glu Asn Arg Asp Xaa Thr
     210                 215                 220

Ala Glu Ser Lys Lys Ile Tyr Met Gly Lys Gln Glu Ser Lys Asp Ser
225                 230                 235                 240

Phe Lys Gln Leu Ala Lys Leu Val Thr Ser Gly Ala Glu Ser Gly Asn
             245                 250                 255

Leu Asn Thr Ser Pro Ser Ser Asn Gln Thr Arg Asn Ser Glu Lys Phe
             260                 265                 270

Glu Lys Pro Glu Asn Glu Ile Glu Ala Gln Leu Ile Cys Glu Pro Pro
         275                 280                 285

Ile Asn Gly Ser Ser Thr Pro Asn Pro Lys Ile Ala Ser Ser Val Thr
         290                 295                 300

Ala Gly Val Ala Ser Ser Leu Ser Glu Lys Ile Ala Asp Ser Ile Gly
```

4755

```
305                    310                    315                    320

Asn Asn Arg Gln Asn Ala Pro Leu Thr Ser Ile Gln Ile Arg Phe Ile
            325             330             335

Gln Asn Met Ile Gln Glu Thr Leu Asp Asp Phe Arg Glu Ala Cys His
            340             345             350

Arg Asp Ile Val Asn Leu Gln Val Glu Met Ile Lys Gln Phe His Met
            355             360             365

Gln Leu Asn Glu Met His Ser Leu Leu Glu Arg Tyr Ser Val Asn Glu
        370             375             380

Gly Leu Val Ala Glu Ile Glu Arg Leu Arg Glu Glu Asn Lys Arg Leu
385                     390             395             400

Arg Ala His Phe
```

```
<210> 5333
<211> 66
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (12)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5333
Arg Lys Pro Gln Thr Pro Thr Ala Leu Cys Thr Xaa Trp Cys Pro His
 1              5              10             15

Phe Gln Lys Lys Lys Lys Lys Ile Ser Lys Ile Glu Phe Lys Lys Ser
            20             25             30

His Leu Ser Cys Pro Ala Asn Ile Cys Ser Ser Leu Val Gly Ala Val
            35             40             45

Glu Ala Ser Thr His Arg Gln Ala Val Ala Gly Thr Val Lys Gly Lys
    50             55             60

Thr Pro
 65
```

```
<210> 5334
```

4756

```
<211> 258
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (251)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5334
Pro Arg Val Arg Arg Glu Val Gln Ser Leu Lys Glu Gln His Gln Lys
 1               5                  10                  15

Glu Ile Ser Glu Leu Asn Glu Thr Phe Leu Ser Asp Ser Glu Lys Glu
                20                  25                  30

Lys Leu Thr Leu Met Phe Glu Ile Gln Gly Leu Lys Glu Gln Cys Glu
            35                  40                  45

Asn Leu Gln Gln Glu Lys Gln Glu Ala Ile Leu Asn Tyr Glu Ser Leu
        50                  55                  60

Arg Glu Ile Met Glu Ile Leu Gln Thr Glu Leu Gly Glu Ser Ala Gly
65                  70                  75                  80

Lys Ile Ser Gln Glu Phe Glu Ser Met Lys Gln Gln Gln Ala Ser Asp
                85                  90                  95

Val His Glu Leu Gln Gln Lys Leu Arg Thr Ala Phe Thr Glu Lys Asp
                100                 105                 110

Ala Leu Leu Glu Thr Val Asn Arg Leu Gln Gly Glu Asn Glu Lys Leu
            115                 120                 125

Leu Ser Gln Gln Glu Leu Val Pro Glu Leu Glu Asn Thr Ile Lys Asn
    130                 135                 140

Leu Gln Glu Lys Asn Gly Val Tyr Leu Leu Ser Leu Ser Gln Arg Asp
145                 150                 155                 160

Thr Met Leu Lys Glu Leu Glu Gly Lys Ile Asn Ser Leu Thr Glu Glu
                165                 170                 175

Lys Asp Asp Phe Ile Asn Lys Leu Lys Asn Ser His Glu Glu Met Asp
                180                 185                 190

Asn Phe His Lys Lys Cys Glu Arg Glu Glu Arg Leu Ile Leu Glu Leu
            195                 200                 205

Gly Lys Lys Val Glu Gln Thr Ile Gln Tyr Asn Ser Glu Leu Glu Gln
    210                 215                 220
```

4757

Lys Val Asn Glu Leu Thr Gly Gly Leu Glu Glu Thr Leu Lys Glu Lys
225   230   235   240

Asp Gln Asn Asp Gln Lys Leu Glu Lys Leu Xaa Gly Ser Asn Glu Ser
                245   250   255

Ser Leu

<210> 5335
<211> 60
<212> PRT
<213> Homo sapiens

<400> 5335
Tyr Ala Ile Ile Met Gln Leu Asn Val Asp Glu Ser Gly Arg Gly Trp
  1   5   10   15

Ala Gln Met Val Pro His Asp Pro Gly Ile Asp Pro Glu Phe Pro Glu
              20   25   30

Glu Trp Val Asp Asn Thr Tyr Ser Asn Lys Asn Pro Phe Leu Leu Phe
          35   40   45

Ser Ile Lys Leu Leu Ser Lys Ile Ile Asp Arg Leu
      50   55   60

<210> 5336
<211> 124
<212> PRT
<213> Homo sapiens

<400> 5336
Leu Cys His Glu Lys Leu Ser Leu Leu Glu Asp Phe Lys Asp Phe Arg
  1   5   10   15

Asp Ser Cys Ser Ser Ser Glu Arg Thr Asp Gly Arg Tyr Ser Lys Tyr
              20   25   30

Arg Val Arg Arg Asn Ser Leu Gln His His Gln Asp Asp Thr Lys Tyr
              35   40   45

Arg Thr Lys Ser Phe Lys Gly Asp Arg Thr Phe Leu Glu Gly Tyr His
      50   55   60

Thr Arg Gly Leu Asp His Ser Ser Ser Trp Gln Asp His Ser Arg Phe

4758

```
        65                      70                      75                      80
Leu Ser Ser Pro Arg Phe Ser Tyr Val Asn Ser Phe Thr Lys Arg Thr
                 85                      90                      95

Val Ala Pro Asp Ser Ala Ser Asn Lys Glu Asp Ala Thr Met Asn Gly
                100                     105                     110

Thr Ser Ser Gln Pro Lys Lys Glu Glu Tyr Gly Ser
                115                     120
```

<210> 5337
<211> 136
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (27)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (110)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (122)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5337
```
Met Ser Arg Thr Arg Pro Ala Arg Pro Met Gly Trp Gly Gln Gln Arg
 1               5                      10                      15

His Ser Pro Leu Val Val Gln Arg Gln Leu Xaa Arg Glu Gly Ser Ser
                20                      25                      30

Pro Glu Gly Ser Thr Arg Arg Thr Ile Glu Gly Gln Ser Pro Glu Pro
                35                      40                      45

Val Phe Gly Asp Ala Asp Val Asp Val Ser Ala Val Gln Ala Lys Leu
        50                      55                      60

Gly Ala Leu Glu Leu Asn Gln Arg Asp Ala Ala Ala Glu Thr Glu Leu
65                      70                      75                      80

Arg Val His Pro Pro Cys Gln Arg His Cys Pro Glu Pro Arg Val His
                85                      90                      95
```

```
Pro Lys Lys Thr Lys Pro Pro Ala Lys Leu Pro Lys Val Xaa Thr Gln
            100             105             110

Lys Pro Pro Ser Leu Ala Leu Phe Pro Xaa Ser Ser Pro Cys Gly Asn
            115             120             125

Leu Leu Leu Ala Arg Lys Phe Gly
        130             135




<210> 5338
<211> 120
<212> PRT
<213> Homo sapiens

<400> 5338
Val Leu Asp Arg Glu Arg Pro Ser Phe Phe Phe Phe Phe Ser Val Gln
 1               5              10              15

Ala Gln Phe Cys His Gln Phe Asp Tyr Glu Lys Ser Phe Gly Leu Pro
                20              25              30

Gly Ser Phe Gly Ala Trp Lys Leu Gln Met Arg Asp Gly Gly Leu His
            35              40              45

Cys Phe Ala Ala Gly Glu Arg Glu Leu Ile Arg Ser Leu Pro Thr Glu
        50              55              60

Val Gly Val Met Pro Asp Ala Glu Arg Ser Gly Ser Pro Arg Ala Gln
65              70              75              80

Ala Pro Cys Gly Arg Cys Pro Gln Arg Ala Ser Pro Pro Pro Arg Pro
                85              90              95

Gly Ser Tyr Leu Leu His Asp Leu Leu Pro Arg Arg Ala Ala Tyr Leu
            100             105             110

Leu Asp Gly Leu Leu Asp Val Leu
            115             120




<210> 5339
<211> 45
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
```

4760

<222> (7)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5339
Ala Gly Met Met Tyr Leu Xaa Asn His Thr Pro Val Leu Ile Ser His
1   5   10   15

Gln Ile Ser Met Phe Thr Phe Ser Val Trp Met Ser Gly Arg Thr Leu
            20   25   30

Lys Asn Trp Gln Ser Cys Pro Thr His Ala Glu His Leu .
        35   40   45

<210> 5340
<211> 288
<212> PRT
<213> Homo sapiens

<400> 5340
Arg Ser Ala Pro Pro Gly Arg Cys Arg Pro Trp Pro Val Pro Ser Pro
1   5   10   15

Arg Phe Ser Ala Pro Arg Ala Val Pro Ser Gln Ser Pro Ala Pro Arg
            20   25   30

Tyr Arg Ala Asp Arg Pro Ser Arg Arg Leu Pro Val Pro Gly Thr Pro
        35   40   45

Ala Arg Pro Leu Ala Arg Ser Pro Pro Ala Ala His Val Pro Gly Ala
    50   55   60

Gly Pro Arg Ala Gly Gly Arg Ala Ala Arg Arg Ser Gln Ala Gly Leu
65   70   75   80

Cys Ser Val Pro Met Ala Ala Ala Gly Trp Arg Asp Gly Ser Gly Gln
            85   90   95

Glu Lys Tyr Arg Leu Val Val Val Gly Gly Gly Val Gly Lys Ser
        100   105   110

Ala Leu Thr Ile Gln Phe Ile Gln Ser Tyr Phe Val Thr Asp Tyr Asp
        115   120   125

Pro Thr Ile Glu Asp Ser Tyr Thr Lys Gln Cys Val Ile Asp Asp Arg
    130   135   140

Ala Ala Arg Leu Asp Ile Leu Asp Thr Ala Gly Gln Glu Glu Phe Gly
145   150   155   160

4761

Ala Met Arg Glu Gln Tyr Met Arg Thr Gly Glu Gly Phe Leu Leu Val
            165   170   175

Phe Ser Val Thr Asp Arg Gly Ser Phe Glu Glu Ile Tyr Lys Phe Gln
            180   185   190

Arg Gln Ile Leu Arg Val Lys Asp Arg Asp Glu Phe Pro Met Ile Leu
            195   200   205

Ile Gly Asn Lys Ala Asp Leu Asp His Gln Arg Gln Val Thr Gln Glu
            210   215   220

Glu Gly Gln Gln Leu Ala Arg Gln Leu Lys Val Thr Tyr Met Glu Ala
225   230   235   240

Ser Ala Lys Ile Arg Met Asn Val Asp Gln Ala Phe His Glu Leu Val
            245   250   255

Arg Val Ile Arg Lys Phe Gln Glu Gln Glu Cys Pro Pro Ser Pro Glu
            260   265   270

Pro Thr Arg Lys Glu Lys Asp Lys Lys Gly Cys His Cys Val Ile Phe
            275   280   285

<210> 5341
<211> 279
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (88)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5341
Ala Ala Ala Glu Arg Asp Val Pro Pro Pro Pro Pro Pro Pro Pro Pro
 1   5   10   15

Pro Ser Glu Pro Leu Leu Ala Leu Arg Gly Gly Ala Thr Asp Ala Cys
            20   25   30

Leu Ala Arg Arg Thr Leu Arg Asp Pro Gly Ala Ala Gln Pro Ala Glu
            35   40   45

Pro Arg Arg Ser Pro Ala Pro Gly Ala Pro Gly Ser Gln Cys Arg Pro
            50   55   60

```
Ala Gly Gly Pro Val Arg Glu Pro Arg Val Arg Glu Leu Arg Leu His
65              70              75              80

Pro Asp Ala Ala Val Ala Arg Xaa Gly Thr Gly His Tyr Leu Cys Asn
              85              90              95

Ala Cys Gly Leu Tyr Ser Lys Met Asn Gly Leu Ser Arg Pro Leu Ile
          100             105             110

Lys Pro Gln Lys Arg Val Pro Ser Ser Arg Arg Leu Gly Leu Ser Cys
      115             120             125

Ala Asn Cys His Thr Thr Thr Thr Thr Leu Trp Arg Arg Asn Ala Glu
      130             135             140

Gly Glu Pro Val Cys Asn Ala Cys Gly Leu Tyr Met Lys Leu His Gly
145             150             155             160

Val Pro Arg Pro Leu Ala Met Lys Lys Glu Gly Ile Gln Thr Arg Lys
              165             170             175

Arg Lys Pro Lys Asn Ile Asn Lys Ser Lys Thr Cys Ser Gly Asn Ser
          180             185             190

Asn Asn Ser Ile Pro Met Thr Pro Thr Ser Thr Ser Ser Asn Ser Asp
          195             200             205

Asp Cys Ser Lys Asn Thr Ser Pro Thr Thr Gln Pro Thr Ala Ser Gly
      210             215             220

Ala Gly Ala Pro Val Met Thr Gly Ala Gly Glu Ser Thr Asn Pro Glu
225             230             235             240

Asn Ser Glu Leu Lys Tyr Ser Gly Gln Asp Gly Leu Tyr Ile Gly Val
              245             250             255

Ser Leu Ala Ser Pro Ala Glu Val Thr Ser Ser Val Arg Pro Asp Ser
              260             265             270

Trp Cys Ala Leu Ala Leu Ala
          275
```

<210> 5342
<211> 55
<212> PRT
<213> Homo sapiens

<400> 5342

4763

```
Glu Glu Leu Glu Ala Arg Gly Leu Arg Trp Leu Pro Trp Val Phe Pro
 1           5               10           15

Ser Arg Leu Cys Tyr Cys Val Arg Pro Phe Ser His Cys Gly His Val
            20               25               30

Phe Leu Glu Ser Ile Phe Gln Val Leu Tyr Ile Gln His Ser Pro Pro
            35               40               45

Ser Phe Ser Leu Ile Pro Phe
    50               55
```

<210> 5343
<211> 59
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (40)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5343
```
Thr Glu Glu Ile Leu Arg Thr Arg Gly Ser Thr Arg Glu Phe Arg Thr
 1           5               10               15

Gly Thr Cys Arg Arg Thr Ser Phe Pro Ile Val Ser Arg Ile Arg Ala
            20               25               30

Trp Arg Asn His Gly His Ser Xaa Phe Leu Cys Glu Ile Gly Ile Arg
            35               40               45

Ser Gln Phe His Thr Thr Tyr Glu Pro Glu Ala
    50               55
```

<210> 5344
<211> 103
<212> PRT
<213> Homo sapiens

<400> 5344
```
Ser Met His Lys Ala Gly Leu Leu Gly Leu Cys Ala Arg Ala Trp Asn
 1           5               10               15

Ser Val Arg Met Ala Ser Ser Gly Met Thr Arg Arg Asp Pro Leu Ala
            20               25               30
```

4764

```
Asn Lys Val Ala Leu Val Thr Ala Ser Thr Asp Gly Ile Gly Phe Ala
        35              40              45

Ile Ala Arg Arg Leu Ala Gln Asp Gly Ala His Val Val Val Ser Ser
        50              55              60

Arg Lys Gln Gln Asn Val Asp Gln Ala Val Ala Thr Leu Gln Gly Glu
    65              70              75              80

Gly Leu Ser Val Thr Gly Thr Cys Ala Met Trp Gly Arg Arg Arg Thr
                85              90              95

Gly Ser Gly Trp Trp Pro Arg
            100
```

<210> 5345
<211> 51
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (48)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5345
```
Ser Leu Tyr Met Leu Thr Asn Ser Lys Gly Lys Glu Ile Asp His Lys
  1               5               10              15

Leu His Val Asn Val Glu Gly Lys Leu Ile Asp His Lys Leu Lys Tyr
                20              25              30

Asn Leu Ile Cys Tyr Ile Phe Leu Leu Ile Tyr Ile Pro Met Lys Xaa
        35              40              45

Phe Leu Tyr
    50
```

<210> 5346
<211> 96
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (20)
<223> Xaa equals any of the naturally occurring L-amino acids

4765

<400> 5346
Cys Phe Ser Leu Pro Ser Leu Phe Thr Ala Val Lys Phe Ile Lys Cys
1   5   10   15

Phe Ser Val Xaa Phe Cys Ser Leu Ser Phe Thr Gly Tyr Phe Phe Met
            20   25   30

Tyr Thr Phe Arg Ile Phe Cys Leu Leu Tyr Pro Val Val Gln Met Ile
        35   40   45

Ser Tyr Ile Leu Gln Met Pro Phe Gln Phe Leu Phe Ser Phe Ser Ile
    50   55   60

Lys Leu Pro Ser Cys Pro Asn Val Gln Phe Val Ser Val Cys Val Cys
65   70   75   80

Val Cys Val Cys Val Asn Leu Ile Phe Lys Ser Ala Arg Leu Pro Ile
                85   90   95

<210> 5347
<211> 291
<212> PRT
<213> Homo sapiens

<400> 5347
Arg Pro Asp Ser Arg Val Asp Pro Arg Val Arg Glu Val Thr Asp Tyr
1   5   10   15

Ala Ile Ala Arg Arg Ile Val Asp Leu His Ser Arg Ile Glu Glu Ser
            20   25   30

Ile Asp Arg Val Tyr Ser Leu Asp Asp Ile Arg Arg Tyr Leu Leu Phe
        35   40   45

Ala Arg Gln Phe Lys Pro Lys Ile Ser Lys Glu Ser Glu Asp Phe Ile
    50   55   60

Val Glu Gln Tyr Lys His Leu Arg Gln Arg Asp Gly Ser Gly Val Thr
65   70   75   80

Lys Ser Ser Trp Arg Ile Thr Val Arg Gln Leu Glu Ser Met Ile Arg
                85   90   95

Leu Ser Glu Ala Met Ala Arg Met His Cys Cys Asp Glu Val Gln Pro
                100   105   110

4766

Lys His Val Lys Glu Ala Phe Arg Leu Leu Asn Lys Ser Ile Ile Arg
        115   120   125

Val Glu Thr Pro Asp Val Asn Leu Asp Gln Glu Glu Glu Ile Gln Met
        130   135   140

Glu Val Asp Glu Gly Ala Gly Gly Ile Asn Gly His Ala Asp Ser Pro
145   150   155   160

Ala Pro Val Asn Gly Ile Asn Gly Tyr Asn Glu Asp Ile Asn Gln Glu
                165   170   175

Ser Ala Pro Lys Ala Ser Leu Arg Leu Gly Phe Ser Glu Tyr Cys Arg
              180   185   190

Ile Ser Asn Leu Ile Val Leu His Leu Arg Lys Val Glu Glu Glu Glu
              195   200   205

Asp Glu Ser Ala Leu Lys Arg Ser Glu Leu Val Asn Trp Tyr Leu Lys
    210   215   220

Glu Ile Glu Ser Glu Ile Asp Ser Glu Glu Glu Leu Ile Asn Lys Lys
225   230   235   240

Arg Ile Ile Glu Lys Val Ile His Arg Leu Thr His Tyr Asp His Val
              245   250   255

Leu Ile Glu Leu Thr Gln Ala Gly Leu Lys Gly Ser Thr Glu Gly Ser
              260   265   270

Glu Ser Tyr Glu Glu Asp Pro Tyr Leu Val Val Asn Pro Asn Tyr Leu
        275   280   285

Leu Glu Asp
    290

<210> 5348
<211> 33
<212> PRT
<213> Homo sapiens

<400> 5348
Thr Cys Ser Arg Ser Arg Ala Ala Ala Leu Leu Thr Val Leu Gly Val
    1   5   10   15

Cys Val Gln Ser Glu Gln Gly Leu Cys Phe Trp Ile Val Lys Glu Asp
                20   25   30

4767

Ala

<210> 5349
<211> 54
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (5)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5349
Thr Pro Ala Gly Xaa Arg Ser Gly Asn Ser Arg Val Glu Gly Pro Leu
 1   5   10   15

Ser Cys Leu Tyr Ser Phe Ser Leu Leu Tyr Ser Phe Thr Arg Ser Pro
                20   25   30

His Leu Thr Ser Glu Leu Leu Gly Pro Leu Asp Pro His Ile Ser Trp
            35   40   45

Ala Ile Ser Leu Phe Cys
        50

<210> 5350
<211> 80
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (8)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (9)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5350

4768

```
Xaa Arg Lys Thr Leu Asp Val Xaa Xaa Thr Ile Met Gly Thr Arg Ile
 1               5               10              15

Glu Gly Phe Phe Pro Leu Lys Ala Phe Leu Pro Gly Gly Trp Ala Leu
             20              25              30

Leu Gly His Ala Leu Gln Ser Ser Val Pro Gln Gln Glu Ser Gly Gly
             35              40              45

His His Leu Pro Ala Ser Ser Thr Phe Ser Ala Ser Leu Phe Ser Met
         50              55              60

Asn Pro Gly Arg Pro Ala Gly Thr Ser Lys Phe Pro Gly Leu Ser Ala
 65              70              75              80
```

<210> 5351
<211> 53
<212> PRT
<213> Homo sapiens

<400> 5351
```
Gln Thr Leu Arg Thr Lys Met Asn Glu Asn Leu Phe Ala Ser Phe Ile
 1               5               10              15

Ala Pro Thr Ile Leu Gly Leu Pro Ala Ala Val Leu Ile Ile Leu Phe
             20              25              30

Pro Pro Leu Leu Ile Pro Thr Ser Lys Tyr Leu Ile Asn Asn Arg Leu
             35              40              45

Ile Thr Thr Gln Gln
         50
```

<210> 5352
<211> 185
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (113)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5352

4769

Arg Cys Pro Thr Arg Ser Pro Pro Pro Asp Thr Pro Gly Ser Arg Gly
  1   5   10   15

Thr Thr Ala Met Cys Ser Leu Ala Ser Gly Ala Thr Gly Gly Arg Gly
              20   25   30

Ala Val Glu Asn Glu Glu Asp Leu Pro Glu Leu Ser Asp Ser Gly Asp
          35   40   45

Glu Ala Ala Trp Glu Asp Glu Asp Ala Asp Leu Pro His Gly Lys
      50   55   60

Gln Gln Thr Pro Cys Leu Phe Cys Asn Arg Leu Phe Thr Ser Ala Glu
 65   70   75   80

Glu Thr Phe Ser His Cys Lys Ser Glu His Gln Phe Asn Ile Asp Ser
              85   90   95

Met Val His Lys His Gly Leu Glu Phe Tyr Gly Tyr Ile Lys Leu Ile
          100   105   110

Xaa Phe Ile Arg Leu Lys Asn Pro Thr Val Glu Tyr Met Asn Ser Ile
          115   120   125

Tyr Asn Pro Val Pro Trp Glu Lys Glu Glu Tyr Leu Lys Pro Val Leu
      130   135   140

Glu Asp Asp Leu Leu Leu Gln Phe Asp Val Glu Asp Leu Tyr Glu Pro
145   150   155   160

Val Ser Val Pro Phe Ser Tyr Pro Asn Gly Leu Ser Glu Asn Thr Ser
              165   170   175

Val Val Glu Lys Leu Lys His Met Glu
          180   185

<210> 5353
<211> 76
<212> PRT
<213> Homo sapiens

<400> 5353
Tyr Ile Lys Ala Leu Leu Ser Ser Asp Tyr Ala Tyr Phe Ala Ser Arg
  1   5   10   15

Glu Thr Glu Ala Trp Val Gly Gln Arg Gly Ala His Val Phe Thr Ala
              20   25   30

Leu Ser Ala Pro Asp Phe Gly Ala Ile Ser Leu His Pro Cys Ala Pro

4770

```
                35                    40                         45
    Val Lys Asn Leu Ala Ser Thr Phe Cys Ser Pro Asp Pro Pro Ser Leu
            50                    55                    60

    Thr Cys Gly Ser Cys His Thr Lys Met Gly Leu Pro
    65                    70                    75
```

```
<210> 5354
<211> 62
<212> PRT
<213> Homo sapiens

<400> 5354
Gly Thr Gln Leu Ile Thr Arg Arg Ile Asn Trp Pro Lys Phe Leu Ile
 1                   5                    10                    15

Phe Gln Phe Val Ala Pro Ala Pro Arg Asp His Gln Lys Leu Phe Trp
                20                    25                    30

Val Ser Leu Ser Leu Arg Arg Asp Pro Leu His Arg Pro Ser Leu Ile
                35                    40                    45

Leu Ile Ser Pro Cys Pro Glu Ser Val Asn Val Pro Arg Lys
        50                    55                    60
```

```
<210> 5355
<211> 80
<212> PRT
<213> Homo sapiens

<400> 5355
Gly His Val Asp Asn Leu Arg Tyr His Ser Ile Val His Asn Val His
 1                   5                    10                    15

His Tyr Ser Val Asp Cys Lys Gly Leu Leu Ser Ser Cys Lys Asn Tyr
                20                    25                    30

Pro Ser Lys Ser Ile Phe Lys Val Leu Val Leu Leu Ile Tyr Lys Leu
                35                    40                    45

Cys Ala Arg Ser Pro Lys Val Asn Ser Asn Ile Tyr Leu Lys Tyr Ser
        50                    55                    60

Leu Ser Tyr Leu Ile Asn Leu Trp Tyr Ile Phe Leu Tyr Tyr Ala Cys
65                    70                    75                    80
```

```
<210> 5356
<211> 116
<212> PRT
<213> Homo sapiens

<400> 5356
Leu Lys Met Lys Thr Pro Phe Phe Ile Phe Asn Leu Ala Glu Thr Ala
 1               5                  10                  15


His Met Pro Ser Lys Val Lys Ala Gln Leu Tyr Ala Gln Ala Tyr Asp
                20                  25                  30


Leu Tyr Lys Glu Ile Val Tyr Leu Gln Lys Glu His Pro Val Asn Trp
            35                  40                  45


His Lys Asn Tyr Ala Ile Ala Cys Glu Arg Met Leu Arg Leu Gln Ala
        50                  55                  60


Arg Asp Ala Asp Pro Glu Val Leu Leu Ser Glu Thr Ile Arg His Phe
65                  70                  75                  80


Arg Leu Tyr Ser Gln Lys Ala Pro Asn Asp Pro Gln Gln Ala Asp Ile
                85                  90                  95


Leu Gly Ala Leu Lys His Leu Arg Lys Glu Leu Gln Ser Leu Arg Asn
                100                 105                 110


Arg Lys Asn Val
        115




<210> 5357
<211> 184
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (110)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5357
Trp Ile Pro Arg Ala Ala Gly Ile Arg His Glu Glu Pro Ala Gly His
 1               5                  10                  15
```

4772

Ser Gln Lys Lys Gly Lys Ala Ile Asn Ile Gly Gln Leu Val Asp Val
            20   25   30

Lys Val Leu Glu Lys Thr Lys Asp Gly Leu Glu Val Ala Val Leu Pro
         35   40   45

His Asn Ile Arg Ala Phe Leu Pro Thr Ser His Leu Ser Asp His Val
      50   55   60

Ala Asn Gly Pro Leu Leu His His Trp Leu Gln Ala Gly Asp Ile Leu
65   70   75   80

His Arg Val Leu Cys Leu Ser Gln Ser Glu Gly Arg Val Leu Leu Cys
              85   90   95

Arg Lys Pro Ala Leu Val Ser Thr Val Glu Gly Gly Gln Xaa Pro Lys
            100   105   110

Asn Phe Ser Glu Ile His Pro Gly Met Leu Leu Ile Gly Phe Val Lys
         115   120   125

Ser Ile Lys Asp Tyr Gly Val Phe Ile Gln Phe Pro Ser Gly Leu Ser
   130   135   140

Gly Leu Ala Pro Lys Ala Ile Met Ser Asp Lys Phe Val Thr Ser Thr
145   150   155   160

Ser Asp His Phe Val Glu Gly Gln Thr Val Ala Ala Lys Val Thr Asn
            165   170   175

Val Asp Glu Glu Lys Gln Arg Met
            180

<210> 5358
<211> 77
<212> PRT
<213> Homo sapiens

<400> 5358
Asn Leu Arg Phe Asp Asp Ala Glu Ala Leu Asp Tyr Thr Phe Ala Tyr
  1   5   10   15

Phe Asp Lys Val His Leu Ser Leu Phe Ile Ser Ser Val Phe Phe Cys
            20   25   30

Tyr Gln Arg Gln Leu Ile Ser Phe Val Pro Gln Tyr Phe Phe Cys Lys
         35   40   45

Tyr Leu Pro Lys Phe Phe Gln Ile Leu Cys Lys Met Gln Val Ile Val

4773

Glu Met Pro Val Tyr Ala Phe Met Leu Ala Ser Leu Asn
65   70   75

<210> 5359
<211> 83
<212> PRT
<213> Homo sapiens

<400> 5359
Gln Ser Val Tyr Lys Arg Gly Leu Gln Lys Lys Met Arg Ala Cys Phe
 1   5   10   15

Thr Gln Gln Lys Ile Trp Pro Phe Leu Asn Asp Thr Arg Arg Val Ile
            20   25   30

Leu Ser His Thr Phe Pro Ser Phe Arg Trp Trp Thr Phe Val Glu Thr
        35   40   45

Gly Thr Gln Trp Ser Asn Arg Leu Cys Pro Pro Val Ala Asp Ser Pro
     50   55   60

Ala Gly Arg Trp Thr Arg Gly Pro Val Leu Thr Val Thr Arg Leu Ser
65   70   75   80

Leu Leu Glu

<210> 5360
<211> 82
<212> PRT
<213> Homo sapiens

<400> 5360
Phe Tyr Pro Gly Arg Lys Ile Lys Gly Ser His Arg Ile Ala Leu Val
 1   5   10   15

Lys Thr Lys His Thr Ile Ala Leu Thr Glu Tyr Leu Gly Asn Leu Pro
            20   25   30

Asn Leu Leu Ile Phe Gly Val Cys Phe Leu Thr Val Gly Leu Trp Glu
        35   40   45

Asp Val Ile Tyr Asp Gln Tyr Leu Pro Val Thr Leu Phe Ile Ser Leu
     50   55   60

4774

```
Ala Leu Lys Ala Asn Gly Gly Lys Lys Ser Met Lys Lys Lys Arg Leu
 65               70              75              80

Ile Lys
```

```
<210> 5361
<211> 100
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (15)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (70)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (98)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (100)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5361
Gly Lys Met Cys Ala Ala Gln Val Arg Glu Tyr Tyr Leu Ala Xaa Lys
 1           5               10              15

Lys Lys Lys Gly Gly Arg Ser Arg Gly Ser Lys Leu Thr Tyr Ala Cys
             20              25              30

Met Arg Arg His Ser Ser Ser Ile Val Ser Pro Lys Phe Asn Ser Leu
         35              40              45

Ala Val Val Leu Gln Arg Arg Asp Trp Glu Asn Pro Gly Val Thr Gln
     50              55              60

Leu Asn Arg Leu Ala Xaa His Pro Pro Phe Ala Ser Trp Arg Asn Ser
 65               70              75              80

Glu Glu Ala Arg Thr Asp Arg Pro Ser Gln Gln Leu Arg Lys Pro Glu
                 85              90              95
```

4775


```
Trp Xaa Met Xaa
            100
```

```
<210> 5362
<211> 379
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (10)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5362
Arg Pro Thr Arg Pro Val Phe Tyr Ala Xaa Glu Ser Trp Ile Lys Tyr
  1               5                   10                  15

Asp Val Gln Glu Arg Gln Lys Tyr Leu Ala Gln Leu Leu Asn Ser Val
              20                  25                  30

Arg Leu Pro Leu Leu Ser Val Lys Phe Leu Thr Arg Leu Tyr Glu Ala
          35                  40                  45

Asn His Leu Ile Arg Asp Asp Arg Thr Cys Lys His Leu Leu Asn Glu
      50                  55                  60

Ala Leu Lys Tyr His Phe Met Pro Glu His Arg Leu Ser His Gln Thr
 65                  70                  75                  80

Val Leu Met Thr Arg Pro Arg Cys Ala Pro Lys Val Leu Cys Ala Val
              85                  90                  95

Gly Gly Lys Ser Gly Leu Phe Ala Cys Leu Asp Ser Val Glu Met Tyr
              100                 105                 110

Phe Pro Gln Asn Asp Ser Trp Ile Gly Leu Ala Pro Leu Asn Ile Pro
          115                 120                 125

Arg Tyr Glu Phe Gly Ile Cys Val Leu Asp Gln Lys Val Tyr Val Ile
          130                 135                 140

Gly Gly Ile Ala Thr Asn Val Arg Pro Gly Val Thr Ile Arg Lys His
 145                 150                 155                 160

Glu Asn Ser Val Glu Cys Trp Asn Pro Asp Thr Asn Thr Trp Thr Ser
              165                 170                 175

Leu Glu Arg Met Asn Glu Ser Arg Ser Thr Leu Gly Val Val Val Leu
```

4776

```
              180                    185                    190

    Ala Gly Glu Leu Tyr Ala Leu Gly Gly Tyr Asp Gly Gln Ser Tyr Leu
            195                 200                 205

    Gln Ser Val Glu Lys Tyr Ile Pro Lys Ile Arg Lys Trp Gln Pro Val
        210                 215                 220

    Ala Pro Met Thr Thr Thr Arg Ser Cys Phe Ala Ala Ala Val Leu Asp
    225                 230                 235                 240

    Gly Met Ile Tyr Ala Ile Gly Gly Tyr Gly Pro Ala His Met Asn Ser
                245                 250                 255

    Val Glu Arg Tyr Asp Pro Ser Lys Asp Ser Trp Glu Met Val Ala Ser
                260                 265                 270

    Met Ala Asp Lys Arg Ile His Phe Gly Val Gly Val Met Leu Gly Phe
                275                 280                 285

    Ile Phe Val Val Gly Gly His Asn Gly Val Ser His Leu Ser Ser Ile
        290                 295                 300

    Glu Arg Tyr Asp Pro His Gln Asn Gln Trp Thr Val Cys Arg Pro Met
    305                 310                 315                 320

    Lys Glu Pro Arg Thr Gly Val Gly Ala Ala Val Ile Asp Asn Tyr Leu
                325                 330                 335

    Tyr Val Val Gly Gly His Ser Gly Ser Ser Tyr Leu Asn Thr Val Gln
                340                 345                 350

    Lys Tyr Asp Pro Ile Ser Asp Thr Trp Leu Asp Ser Ala Gly Met Ile
                355                 360                 365

    Tyr Cys Arg Cys Asn Phe Gly Leu Thr Ala Leu
        370                 375
```

<210> 5363
<211> 130
<212> PRT
<213> Homo sapiens

<400> 5363

```
    Lys His Trp Thr Ser Leu Thr Tyr Phe Phe Ser Phe Ser Ala Phe Arg
      1                 5                 10                 15

    Met Ile Pro Tyr Pro Leu Glu Lys Gly His Leu Phe Tyr Pro Tyr Pro
                20                 25                 30
```

4777

```
Ile Cys Thr Glu Thr Ala Asp Arg Glu Leu Leu Pro Ser Phe His Glu
        35                  40                  45

Val Ser Val Tyr Pro Lys Lys Glu Leu Pro Phe Phe Ile Leu Phe Thr
    50                  55                  60

Ala Gly Leu Cys Ser Phe Thr Ala Met Leu Ala Leu Leu Thr His Gln
65                  70                  75                      80

Phe Pro Glu Leu Met Gly Val Phe Ala Lys Ala Met Ile Asp Ile Phe
                85                  90                  95

Cys Ser Ala Glu Phe Arg Asp Trp Asn Cys Lys Ser Ile Phe Met Arg
            100                 105                 110

Val Glu Asp Glu Leu Glu Ile Pro Pro Ala Pro Gln Ser Gln His Phe
        115                 120                 125

Gln Asn
    130
```

```
<210> 5364
<211> 72
<212> PRT
<213> Homo sapiens
```

```
<400> 5364
Ser Ser Ala Leu Glu Val Leu Glu Phe Leu Ile Ser Phe Ile Gln Phe
1               5               10                  15

Gln Gly Leu Ile Phe Tyr Arg Leu Pro Arg Gln Phe Ile Gln Gly Leu
            20                  25                  30

Leu Tyr Leu Arg Phe Thr Cys His Val Arg Ser Ser Gly Phe Glu His
            35                  40                  45

Lys Leu Tyr Ser Trp Asp Leu Ser Asp Thr Pro Leu Leu Thr Gly Leu
    50                  55                  60

Gly Phe His Phe Ser Asp Pro Phe
65                  70
```

```
<210> 5365
<211> 62
<212> PRT
<213> Homo sapiens
```

4778

<400> 5365
Ser Ala Pro Ser Pro Asn Leu Leu Pro Leu Gly Arg Val Gly Leu Arg
1   5   10   15

Asp Leu Leu Ser Trp Lys Val Leu Thr Leu Pro Gly Glu Gly Ala Arg
            20   25   30

His Cys Pro Arg Glu Ser Asn Arg Arg Trp Lys Lys Ser Ile Lys Ser
            35   40   45

Asp Gln Asp Gly Gly Lys Lys Lys Lys Lys Lys Arg Gly Gly
        50   55   60

<210> 5366
<211> 80
<212> PRT
<213> Homo sapiens

<400> 5366
Gln Leu Val Thr Val Glu Glu Ala Gly Trp Val Phe Ser Gly Pro Arg
1   5   10   15

Lys Phe Lys Met Ser Ala Met Leu Ser Ile Ile Thr Phe Cys Cys Gln
            20   25   30

Lys Gly Trp Gln Ile Glu Ala Phe Leu Pro Ile Ala Phe Ser Glu Leu
            35   40   45

Pro Cys Gln Ser Phe Thr Leu Gly Lys Glu Arg Trp Ala Gly Ile Leu
        50   55   60

Gly Asn Arg Thr Pro Glu Thr Tyr Leu Cys Leu Pro Lys Asn Val Asp
65   70   75   80

<210> 5367
<211> 360
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (53)
<223> Xaa equals any of the naturally occurring L-amino acids

```
<220>
<221> SITE
<222> (360)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5367
Leu Pro Gln Ala Gln Gly Asp Gln Phe Pro Trp Glu Gln Ala Glu Gly
 1               5                  10                  15

Gln Ala Pro Gly Glu Asp Gly Gln Arg Leu Pro Asp Gln Ile His Pro
                20                  25                  30

Gly Val Pro Ala Arg Arg Arg Pro Trp Trp Arg Glu Arg Ala Arg Ala
            35                  40                  45

Val Arg Gly Leu Xaa Glu Gly Arg Glu Pro Glu Lys Arg Arg Glu Arg
        50                  55                  60

Lys Gln Arg Arg Glu Gly Gly Asp Gly Glu Glu Gln Asp Val Gly Asp
 65                  70                  75                  80

Ala Gly Arg Leu Leu Leu Arg Val Leu His Val Ser Glu Asn Pro Val
                85                  90                  95

Pro Leu Thr Val Arg Val Ser Pro Glu Val Arg Asp Val Arg Pro Tyr
            100                 105                 110

Ile Val Gly Ala Val Val Arg Gly Met Asp Leu Gln Pro Gly Asn Ala
        115                 120                 125

Leu Lys Arg Phe Leu Thr Ser Gln Thr Lys Leu His Glu Asp Leu Cys
    130                 135                 140

Glu Lys Arg Thr Ala Ala Thr Leu Ala Thr His Glu Leu Arg Ala Val
145                 150                 155                 160

Lys Gly Pro Leu Leu Tyr Cys Ala Arg Pro Pro Gln Asp Leu Lys Ile
            165                 170                 175

Val Pro Leu Gly Arg Lys Glu Ala Lys Ala Lys Glu Leu Val Arg Gln
            180                 185                 190

Leu Gln Leu Glu Ala Glu Glu Gln Arg Lys Gln Lys Lys Arg Gln Ser
            195                 200                 205

Val Ser Gly Leu His Arg Tyr Leu His Leu Leu Asp Gly Asn Glu Asn
    210                 215                 220

Tyr Pro Cys Leu Val Asp Ala Asp Gly Asp Val Ile Ser Phe Pro Pro
225                 230                 235                 240
```

4780

```
Ile Thr Asn Ser Glu Lys Thr Lys Val Lys Lys Thr Thr Ser Asp Leu
              245           250           255

Phe Leu Glu Val Thr Ser Ala Thr Ser Leu Gln Ile Cys Lys Asp Val
              260           265           270

Met Asp Ala Leu Ile Leu Lys Met Ala Glu Met Lys Lys Tyr Thr Leu
              275           280           285

Glu Asn Lys Glu Glu Gly Ser Leu Ser Asp Thr Glu Ala Asp Ala Val
    290           295           300

Ser Gly Gln Leu Pro Asp Pro Thr Thr Asn Pro Ser Ala Gly Lys Asp
305           310           315           320

Gly Pro Ser Leu Leu Val Val Glu Gln Val Arg Val Val Asp Leu Glu
              325           330           335

Gly Ser Leu Lys Val Val Tyr Pro Ser Lys Ala Asp Leu Ala Thr Ala
              340           345           350

Pro Pro His Val Thr Val Val Xaa
          355           360
```

<210> 5368
<211> 43
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (3)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (19)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (20)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5368
```
Ala Arg Xaa Pro Thr Leu Thr Lys Gly Asn Lys Ser Trp Ser Ser Thr
  1           5               10              15
```

4781

Ala Val Xaa Xaa Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn
          20   25   30

Ser Ala Arg Asp Phe Glu His Ser Ser Asp Ile
         35   40

<210> 5369
<211> 78
<212> PRT
<213> Homo sapiens

<400> 5369
Leu Gln Thr Lys Pro Ser Pro Ala Phe Phe Leu Leu Leu Leu Val Leu
  1   5   10   15

Gln Leu Gln Gly Pro Phe Thr Phe Met Ser Glu Met Glu Leu Trp Leu
          20   25   30

Phe Gln Trp Lys Asn Met Leu Lys Val Ser Phe Cys Ser Arg Lys Lys
         35   40   45

Lys Ser Leu Pro Lys Trp Gly Lys Lys Leu Tyr Ile Tyr Leu Ile Ile
     50   55   60

Gln Asn Thr Asp Gln Ser Leu Asp Leu Lys Lys Lys Lys Lys
 65   70   75

<210> 5370
<211> 47
<212> PRT
<213> Homo sapiens

<400> 5370
Gly Ile Thr Ile Arg Lys Thr Val Cys Thr Cys Ser Leu Gln Met Gln
  1   5   10   15

Pro Leu Leu Ser Leu Thr Thr Ser Phe Tyr Leu Gln Leu Ile Glu Ser
          20   25   30

Met Asp Val Glu Pro Val His Met Glu Gly Gln Leu Tyr Tyr Lys
         35   40   45

<210> 5371
<211> 61
<212> PRT

4782

<213> Homo sapiens

<400> 5371
Thr Val Leu Ser Leu Ala Gly Leu Leu Gly Gly Lys Tyr Leu Gln Asn
1   5   10   15

Asn Gly Ile Val Leu Gly Phe Leu Leu Ala Leu Glu Thr His Leu Phe
            20   25   30

Thr Asn Arg Phe Pro Glu Asp Thr Leu Ile Ser Pro Ser Tyr Leu Pro
        35   40   45

Glu Cys Leu Leu Met Ala Ser Leu Lys Lys Gly Gly Leu
    50   55   60

<210> 5372
<211> 56
<212> PRT
<213> Homo sapiens

<400> 5372
Ser Ser Cys Pro Lys Ala Leu Trp Gly Pro Gly Trp Arg Ser Gln Gly
1   5   10   15

Ile Leu Tyr Asp Leu Ala Ile Gly Cys Lys Arg Lys His Ile Pro Cys
            20   25   30

Cys Gly Ser Cys Ile Leu Phe His Ser Ser Pro Leu Lys Glu Lys Val
        35   40   45

His Val Leu Ser Pro Ala His Pro
    50   55

<210> 5373
<211> 238
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (16)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (107)
<223> Xaa equals any of the naturally occurring L-amino acids

4783

<220>
<221> SITE
<222> (113)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5373
Glu Lys Leu Ile Leu Leu Leu Ser Leu Pro Gly Ile Asp Ile Asn Xaa
1   5   10   15

Lys Asp Asn Ala Gly Trp Thr Pro Leu His Glu Ala Cys Asn Tyr Gly
            20   25   30

Asn Thr Val Cys Val Gln Glu Ile Leu Gln Arg Cys Pro Glu Val Asp
            35   40   45

Leu Leu Thr Gln Val Asp Gly Val Thr Pro Leu His Asp Ala Leu Ser
        50   55   60

Asn Gly His Val Glu Ile Gly Lys Leu Leu Leu Gln His Gly Gly Pro
65   70   75   80

Val Leu Leu Gln Gln Arg Asn Ala Lys Gly Glu Leu Pro Leu Asp Tyr
                85   90   95

Val Val Ser Pro Gln Ile Lys Glu Glu Leu Xaa Ala Ile Thr Lys Ile
            100   105   110

Xaa Asp Thr Val Glu Asn Phe His Ala Gln Ala Glu Lys His Phe His
        115   120   125

Tyr Gln Gln Leu Glu Phe Gly Ser Phe Leu Leu Ser Arg Met Leu Leu
    130   135   140

Asn Phe Cys Ser Ile Phe Asp Leu Ser Ser Glu Phe Ile Leu Ala Ser
145   150   155   160

Lys Gly Leu Thr His Leu Asn Glu Leu Leu Met Ala Cys Lys Ser His
                165   170   175

Lys Glu Thr Thr Ser Val His Thr Asp Trp Leu Leu Asp Leu Tyr Ala
            180   185   190

Gly Asn Ile Lys Thr Leu Gln Lys Leu Pro His Ile Leu Lys Glu Leu
            195   200   205

Pro Glu Asn Leu Lys Val Cys Pro Gly Val His Thr Glu Ala Leu Met
    210   215   220

Ile Thr Leu Glu Met Met Cys Arg Ser Val Met Glu Phe Ser
225   230   235

```
<210> 5374
<211> 78
<212> PRT
<213> Homo sapiens

<400> 5374
Ile Lys Asp Cys Leu Lys Thr Lys Gly Asn Leu Thr Asp Glu Lys Lys
 1               5                  10                  15

Pro Asp Glu Arg His Leu Thr Lys Asn Glu Lys Lys Leu Ser Gly Gln
                 20                  25                  30

Asn Asn Tyr Glu Lys Met Asn Leu Gln Ile Arg Lys Arg Glu Lys Ser
             35                  40                  45

Leu Phe Asp Thr Met Gly Thr Gln Lys Arg Val Asn Thr Asn Val Lys
         50                  55                  60

Ile Pro Arg Val Lys Lys Ser Ile Ile Thr Thr Phe Arg Ala
 65                  70                  75
```

```
<210> 5375
<211> 54
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (54)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5375
Phe Gly Arg Ala Val Thr Gln Ala Gly Val Leu Trp His Asn Leu Gly
 1               5                  10                  15

Leu Leu Gln Pro Gln Phe Leu Gly Leu Asn Ser Pro Pro Thr Ser Ala
                 20                  25                  30

Ser Trp Val Ala Gly Thr Thr Val Thr Ala Leu Pro Cys Pro Asp Asn
             35                  40                  45

Phe Phe Phe Phe Phe Xaa
         50
```

4785

```
<210> 5376
<211> 52
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (50)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5376
His Phe Thr Val Leu Phe Gly Ile Ile Leu Tyr Glu Ala Val Trp Ile
 1               5                  10                  15


Gly Leu Leu Phe Pro Leu Val Asn Trp Leu Met Leu Arg Phe Trp Leu
                20                  25                  30


Leu Glu Ser Ile Cys Val Phe Pro Val Leu Ala Ser His Tyr Val Ile
            35                  40                  45


Cys Xaa Ile Phe
        50




<210> 5377
<211> 82
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (10)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5377
Met Arg Leu Lys Ser Val Cys Val Cys Xaa Arg Ala Arg Met Trp Pro
 1               5                  10                  15


Lys Asn Ser Ala Ile Met Ser Asn Ser Ser Phe Ala Leu Phe Leu Arg
                20                  25                  30


Val Asp Asp Ile Arg His Phe Ser Val Phe Gly Glu Ile Asp Trp Asp
            35                  40                  45


Thr Ser Pro Lys Pro Thr Gln Val Cys Asn Trp Lys Pro Gly Gly Trp
        50                  55                  60


Phe Ser Gly Pro Leu Cys Pro Leu Ser Phe Thr Val Ile Leu Phe Thr
 65                  70                  75                  80
```

4786

Ser Thr

<210> 5378
<211> 290
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (4)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5378
Thr Asn Ser Xaa Phe Asp Lys Gln Asn Asp Asp Pro Lys Glu Arg Ile
 1   5   10   15

Asp Lys Asp Thr Lys Asn Val Asn Ser Asn Thr Gly Met Gln Thr Thr
            20   25   30

Glu Asn Tyr Leu Thr Glu Lys Gly Asn Glu Arg Asn Val Lys Phe Pro
        35   40   45

Pro Glu His Pro Val Glu Asn Asp Val Thr Gln Thr Val Ser Ser Phe
    50   55   60

Ser Leu Pro Ala Ser Ser Arg Ser Lys Lys Leu Cys Asp Val Thr Thr
65   70   75   80

Gly Leu Lys Ile His Val Ser Ile Pro Asn Arg Ile Pro Lys Ile Val
                85   90   95

Lys Glu Gly Glu Asp Asp Tyr Tyr Thr Asp Gly Glu Glu Ser Ser Asp
            100   105   110

Asp Gly Lys Lys Tyr His Val Lys Ser Lys Ser Ala Lys Pro Ser Thr
            115   120   125

Asn Val Lys Lys Ser Ile Arg Lys Lys Tyr Cys Lys Val Ser Ser Ser
            130   135   140

Ser Ser Ser Ser Leu Ser Ser Ser Ser Gly Ser Gly Thr Asp Cys
145   150   155   160

Leu Asp Ala Gly Ser Asp Ser His Leu Ser Asp Ser Ser Pro Ser Ser
                165   170   175

Lys Ser Ser Lys Lys His Val Ser Gly Ile Thr Leu Leu Ser Pro Lys
            180   185   190

4787

```
His Lys Tyr Lys Ser Gly Ile Lys Ser Thr Glu Thr Gln Pro Ser Ser
        195                 200             205

Thr Thr Pro Lys Cys Gly His Tyr Pro Glu Glu Ser Glu Asp Thr Val
        210             215                 220

Thr Asp Val Ser Pro Leu Ser Thr Pro Asp Ile Ser Pro Leu Gln Ser
225                 230             235                 240

Phe Glu Leu Gly Ile Ala Asn Asp Gln Lys Val Lys Ile Lys Lys Gln
                245             250             255

Glu Asn Val Ser Gln Glu Ile Tyr Glu Asp Val Glu Asp Leu Lys Asn
                260             265             270

Asn Ser Lys Tyr Leu Lys Ala Ala Lys Lys Gly Glu Glu Asn Leu Gly
        275             280             285

Leu Leu
    290
```

```
<210> 5379
<211> 59
<212> PRT
<213> Homo sapiens

<400> 5379
Pro Lys Thr Ala Phe Asp Ser Cys Ser Pro Thr Cys Ser Ser Pro Ser
 1               5               10              15

Phe Leu His Leu Arg Asn Val Thr Ser Ser Ala Lys Ser Phe Pro Asp
                20              25              30

Leu Ser Lys Ile Ile Thr Ser Ser Val Cys Cys Gly Asn Leu Tyr Arg
            35              40              45

Met Val Gly Lys Phe Gln Val Ser Tyr Leu Asp
        50              55
```

```
<210> 5380
<211> 152
<212> PRT
<213> Homo sapiens

<400> 5380
Lys Leu Leu Leu Phe Ser Leu Ser Ile Leu Leu Phe Phe Gly Lys Gln
```

4788

```
   1                    5                    10                   15

  Ser Leu Ser Pro Val Met Gly Gly Gly Gly Trp Glu Arg Leu His Ser
               20                  25                  30

  Thr Pro Trp Lys Trp Glu Tyr Pro Tyr Val Val Phe Gly Ile Phe Leu
               35                  40                  45

  Tyr Gly Lys Phe Val Ser Pro Ser His Pro Asn Leu Phe Thr Ser Val
               50                  55                  60

  Trp Thr His Val Tyr Phe Val Phe Trp Val Thr Gln Tyr Leu Phe Cys
   65                  70                  75                  80

  Cys Leu Ser Cys Pro Ala Trp Leu Leu Gly Val Leu Pro Gly Trp Leu
               85                  90                  95

  Leu Cys Pro Phe Asp Val Pro Ile Leu Leu Ile Phe Glu His Phe Leu
              100                 105                 110

  Leu Ser Gly Thr Thr Arg Cys Ser Arg Phe Ile Leu Asp Ile Pro Cys
              115                 120                 125

  Pro Asn Pro Arg Ile Pro Arg Ile Asn Pro Cys Ser Lys Glu Pro Trp
              130                 135                 140

  Phe Leu Leu Leu Glu Asn His Thr
  145                 150
```

```
<210> 5381
<211> 76
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (62)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5381
Phe Leu Cys Ser Val Val Tyr Phe Phe Phe Leu Leu Leu Leu Ser Pro
  1               5                  10                  15

Leu Ser Pro Leu Lys Ala Gly Asn Arg Leu Leu Glu Asn Leu Arg Gly
               20                  25                  30

Lys Arg Ile Leu Phe Thr Gly Gly Ser Arg Lys Leu Ser Glu Arg Ser
               35                  40                  45
```

4789

Ile Val Leu Ser Pro Phe Pro Leu Ser Phe Gln Phe Gly Xaa Trp Trp
    50   55   60

Ser Glu Glu Glu Lys Glu Ile Leu Cys Met Tyr Val
65   70   75

<210> 5382
<211> 50
<212> PRT
<213> Homo sapiens

<400> 5382
Gly Asp Asp Phe Gly Arg Asn Pro Phe Gly Thr Thr His Pro Ala Met
1   5   10   15

Ser Val Glu Lys Trp Asn Cys Asn Pro Gln Glu Ser His Phe Ile Phe
                20   25   30

Leu Pro Phe Lys Trp Leu Ile Lys Gly Ser Ala Ser Ser Thr Gly Phe
            35   40   45

Met Glu
    50

<210> 5383
<211> 133
<212> PRT
<213> Homo sapiens

<400> 5383
Asn Ala His Ala Gly Arg Tyr Cys Ser Tyr Gln Tyr Phe Ala Phe Tyr
1   5   10   15

Asn Lys Gly Leu Phe Ile Leu Met Pro Phe Leu Gln Asp Phe Phe Val
                20   25   30

Ile Ser Val His Met Lys Met Leu Thr Leu Asn Ile Asn Thr Trp Arg
            35   40   45

Pro Cys Pro Val Ala Leu Pro Trp Leu Pro Ala Trp Ser Val Phe Pro
    50   55   60

Cys Gly Phe Thr Cys Gly Pro Ala Val Ala Thr Ser Met Val Cys Val
65   70   75   80

Leu Val Asp Ser Leu Gln Leu Ser Asp Ala Ser Phe Cys His Asn His
                85   90   95

4790

```
Leu Phe Pro Asp Thr Ile Val Leu Ile Leu Phe Gln Asn Cys Lys Ile
            100             105             110

Ile Ser Ser Leu Lys Cys Lys Gly Cys Phe Cys Ser Val Ser Val Phe
            115             120             125

Phe Glu Ile Lys Leu
            130
```

```
<210> 5384
<211> 74
<212> PRT
<213> Homo sapiens
```

```
<400> 5384
Tyr Leu Phe Ser Leu Leu Phe Met Ser Leu Cys Arg Ile Leu Gly Tyr
 1           5               10              15

Ser Phe Ser Ser Arg Leu Ser Ser Leu Ile Leu Pro Leu Ala Val Phe
            20              25              30

His Tyr Cys Leu Ser Cys Pro Leu His Phe Lys Leu Ser Phe Lys Tyr
            35              40              45

Leu Pro Phe Pro Ser Phe Pro Phe Ser Ser Leu Pro Cys Pro Ala Leu
     50              55              60

Pro Cys Pro Ala Leu Pro Ser Pro Pro Leu
 65                  70
```

```
<210> 5385
<211> 71
<212> PRT
<213> Homo sapiens
```

```
<220>
<221> SITE
<222> (42)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (59)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
```

4791

```
<221> SITE
<222> (70)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5385
Ile Phe Asp Phe Phe His Gln Arg Phe Cys Phe Pro Ala Ile Asp Phe
1               5                   10                  15

Ala Tyr Leu Leu Leu Asp Leu Tyr Leu Lys Val Leu Ser Phe Trp Asn
            20                  25                  30

Val Cys Phe Cys Thr Cys Phe Ala Asn Xaa Phe Leu Asn Ser Lys Phe
            35                  40                  45

Tyr Cys Leu Ala Tyr Asn Asn Leu Asn Phe Xaa Tyr Ile Asn Pro Gly
    50                  55                  60

Glu Lys Glu Pro Lys Xaa Thr
65                  70


<210> 5386
<211> 74
<212> PRT
<213> Homo sapiens

<400> 5386
Leu Ala Asn Cys Ala Phe Lys Lys Lys Asn Arg Gln Thr Phe Glu Gly
1               5                   10                  15

Gln Glu Gly Ser Cys Pro Val Phe Gln Lys Ser Phe Phe Pro Ala Ile
            20                  25                  30

Arg Asn Val Lys Pro Asn Leu Ala Thr Lys Ile Asn Glu Lys Met Gly
            35                  40                  45

Phe Pro Leu Val Leu Ser Leu Ser Cys Ser Trp Leu Cys Tyr Val Leu
    50                  55                  60

Ser Pro Arg Leu Tyr Pro Asp Lys Met Ser
65                  70


<210> 5387
<211> 64
<212> PRT
<213> Homo sapiens

<400> 5387
```

4792

```
Gly Lys Arg His Ile Phe Ser Leu Thr Gln Leu Ala Asp Thr Glu Val
 1               5                  10                  15

Gly Arg Trp Gln Glu Lys Ala Ser Thr Glu Leu Ile Gln Thr Cys Arg
                20                  25                  30

Lys Leu Pro Leu Leu Leu Leu Ser Lys Met Lys Gly Ser Gly Lys Arg
            35                  40                  45

His Leu Pro Phe Pro Ala Leu Arg Ile Leu Ala Ser Leu Ser Leu Tyr
        50                  55                  60
```

```
<210> 5388
<211> 220
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (156)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (169)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (220)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5388
Tyr Arg Glu Ser Trp Tyr Ala Cys Arg Tyr Arg Ser Gly Ile Pro Gly
 1               5                  10                  15

Ser Thr His Ala Ser Ala Asn Ser Phe Val Lys Phe Ala Asn Ile Glu
                20                  25                  30

Glu Asp Thr Pro Ser Tyr His Arg Arg Tyr Asp Phe Phe Val Ser Arg
            35                  40                  45

Phe Ser Ala Met Cys His Ser Cys His Ser Asp Pro Glu Ile Arg Thr
        50                  55                  60

Glu Ile Arg Ile Ala Gly Ile Arg Gly Ile Gln Gly Val Val Arg Lys
```

4793

```
      65                    70                    75                    80

Thr Val Asn Asp Glu Leu Arg Ala Thr Ile Trp Glu Pro Gln His Met
                85                    90                    95

Asp Lys Ile Val Pro Ser Leu Leu Phe Asn Met Gln Lys Ile Glu Glu
               100                   105                   110

Val Asp Ser Arg Ile Gly Pro Pro Ser Ser Pro Ser Ala Thr Asp Lys
               115                   120                   125

Glu Glu Asn Pro Ala Val Leu Ala Glu Asn Cys Phe Arg Glu Leu Leu
        130                   135                   140

Gly Arg Ala Thr Phe Gly Asn Met Asn Asn Ala Xaa Arg Pro Val Phe
145                   150                   155                   160

Ala His Leu Asp His His Lys Leu Xaa Asp Pro Asn Glu Phe Ala Val
               165                   170                   175

His Cys Phe Lys Ile Ile Met Tyr Ser Ile Gln Ala Gln Tyr Ser His
               180                   185                   190

His Val Ile Gln Glu Ile Leu Gly His Leu Asp Ala Arg Lys Lys Asp
               195                   200                   205

Ala Pro Gly Phe Glu Gln Val Leu Phe Arg Phe Xaa
        210                   215                   220
```

<210> 5389
<211> 65
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (18)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (40)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (42)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (45)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (54)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (64)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5389
Leu Cys Val Arg Cys Ser Lys Lys Val Ala Gln Ser Val Met Arg Lys
 1   5   10   15

Leu Xaa Gly Tyr Ile Leu Ser Arg Met Asn Arg Gln Asp Ser Leu Lys
            20   25   30

Asn Phe Leu Gly Asn Glu Lys Xaa Ala Xaa Cys Asn Xaa Phe Met Pro
        35   40   45

Ile Ile Pro Asn Thr Xaa Gly Gly Leu Lys Gly Glu Asp His Phe Xaa
    50   55   60

Pro
65

<210> 5390
<211> 121
<212> PRT
<213> Homo sapiens

<400> 5390
Ile Cys Glu Ile Leu Ser Leu Cys Pro Phe Pro Thr Ser Gly Pro Thr
 1   5   10   15

Pro Gly Pro Ser Pro Thr Phe Leu Leu Ser Ser Leu Ala Val Val Ile
            20   25   30

Ile Trp Gly Leu Tyr Cys Thr Tyr Pro Gly Cys Val Cys Val Gly Trp
        35   40   45

Gly Gln Pro Phe Cys Thr Glu Leu Pro Gly Pro Leu Pro Pro Arg Pro
    50   55   60

4795

```
Ser Ala Ser Leu Pro Thr His His Leu Lys Gly Arg Glu Leu Leu Phe
 65              70              75              80

Leu Pro Val Leu Phe Cys Phe Leu Val Leu Pro Pro His Pro Thr Pro
                 85              90              95

Ser Leu Ile Tyr Pro Pro Ser Leu Ser Pro Phe Leu His Ser Gln Pro
            100             105             110

His Phe Leu Phe Phe Trp Ser Val Trp
        115             120
```

<210> 5391
<211> 49
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (48)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5391
```
Phe Thr Asn Trp Arg Leu Leu Ile Leu Ile His Leu Arg Phe Lys Ile
 1               5               10              15

Phe Ile Asn Cys Lys Gln Cys Asn Tyr Leu Tyr Phe Thr Val Pro Ser
            20              25              30

Gln Thr Phe His Leu Arg Phe Cys Cys Lys Lys His Gln Val Ser Xaa
        35              40              45

Thr
```

<210> 5392
<211> 78
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (26)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5392
```
Leu Leu Ala Ala Gly Ile Ser Glu Glu Gly Leu Val Leu Ile Leu Lys
```

4796

```
     1                    5                         10                        15

    Val Leu Cys Ser Cys Pro Arg Pro Glu Xaa Thr His Ala Glu Thr Leu
                 20                    25                    30

    Pro Ser Pro Ser Lys Val Gln Gly Leu Val Thr Glu Tyr Trp Val Glu
                 35                    40                    45

    His Met Thr Gly Ser Gln Leu Ile Pro Pro Ser Leu Pro Val Lys Pro
                 50                    55                    60

    Gln Asp Ser Cys Phe Pro Gly Ser His Leu Arg Pro Leu Arg
    65                    70                    75
```

```
<210> 5393
<211> 49
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (17)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5393
Val Leu His His Val Leu Ile His Leu Ile Leu Thr Glu Ile Val Asn
 1                    5                         10                        15

Xaa Gly Ile Ile Leu Ile Leu Thr Leu Trp Ile Lys Lys Thr Lys Ala
                 20                    25                    30

Gln Arg Val Lys Ala Ser Leu Pro Glu Ile Ile Asp Cys Lys Phe Glu
                 35                    40                    45

Arg
```

```
<210> 5394
<211> 29
<212> PRT
<213> Homo sapiens

<400> 5394
Ile Leu Thr Pro Pro Leu Cys Asp Ile Gln Lys Leu Asn Ser Lys Cys
 1                    5                         10                        15

Asn Lys His Leu Asn Ile Arg Ile Lys Thr Ile Lys Leu
```

4797

20   25

```
<210> 5395
<211> 187
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (168)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (180)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5395
Ala Glu Ala Glu Phe Ala Met Asp Ser Asn His Gln Ser Asn Tyr Lys
 1               5                  10                  15

Leu Ser Lys Thr Glu Lys Lys Phe Leu Arg Lys Gln Ile Lys Ala Lys
            20              25                  30

His Thr Leu Leu Arg His Glu Gly Ile Glu Thr Val Ser Tyr Ala Thr
            35                  40                  45

Gln Ser Leu Val Val Ala Asn Gly Gly Leu Gly Asn Gly Val Ser Arg
    50                  55                  60

Asn Gln Leu Leu Pro Val Leu Glu Lys Cys Gly Leu Val Asp Ala Leu
65                  70                  75                  80

Leu Met Pro Pro Asn Lys Pro Tyr Ser Phe Ala Arg Tyr Arg Thr Thr
            85                  90                  95

Glu Glu Ser Lys Arg Ala Tyr Val Thr Leu Asn Gly Lys Glu Val Val
            100                 105                 110

Asp Asp Leu Gly Gln Lys Ile Thr Leu Tyr Leu Asn Phe Val Glu Lys
            115                 120                 125

Val Gln Trp Lys Glu Leu Arg Pro Gln Ala Leu Pro Pro Gly Leu Met
            130                 135                 140

Val Val Glu Glu Ile Ile Ser Ser Glu Glu Glu Lys Met Leu Leu Glu
145                 150                 155                 160

Ser Val Asp Trp Thr Glu Asp Xaa Asp His Gln Asn Ser Gln Lys Ile
```

4798

```
                    165                    170                    175
Leu Lys Thr Xaa Lys Ser Lys Ala Phe Trp Leu
                    180                    185
```

```
<210> 5396
<211> 75
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (58)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5396
Phe Phe Pro Phe Gly Asn Ser Val Asn Pro Ala Val Gly Cys Cys Leu
  1               5                  10                 15

Ser Asp Tyr Lys Arg Leu Gly Ser Cys Phe Cys Phe Lys Cys Leu Arg
            20                  25                  30

Leu Trp Ser Tyr Thr Leu Val Leu Leu Gly Gln Ser Glu His Cys Leu
        35                  40                  45

Leu Cys Lys Ile Ile Ser Phe Arg Val Xaa Ser Cys Gln Ile Tyr Trp
      50                  55                  60

Pro Leu Ile Gln Tyr Ser Trp Val Tyr Cys Met
  65                  70                  75
```

```
<210> 5397
<211> 81
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (29)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (35)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
```

4799

<221> SITE
<222> (50)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5397
Glu Asp Gln Glu Lys Lys Glu Leu Lys Met Glu Lys Ala Thr Val Arg
1   5   10   15

Thr Val Gly Tyr Arg Arg Arg Asn Ser Gly Ser Thr Xaa Asp Pro Pro
            20   25   30

Pro Gly Xaa Met Ser Phe Gln Glu Trp Asn Pro Ser Leu Val Met Val
        35   40   45

Ser Xaa Pro Val Leu Pro Ala Ser Thr Leu Pro Cys Pro Pro Arg Gly
    50   55   60

Val Ser Glu Ser Ala Ser Gly Phe Leu Met Met Val Val Val Val Val
65   70   75   80

Val

<210> 5398
<211> 83
<212> PRT
<213> Homo sapiens

<400> 5398
Tyr Phe Val His His Asn Phe Cys Ile Tyr Phe Phe Lys Tyr Cys Ile
1   5   10   15

Lys Ile Ser Phe Ser Leu Ile Ile Glu Phe Phe Gly Leu Arg Phe Phe
            20   25   30

Val Ala Ser Phe Phe Phe Ser Phe Phe Pro Pro Leu Phe Phe Gly Cys
        35   40   45

Pro Leu Lys Phe Cys Pro Lys Ala Gly Thr Ser Leu Ile Ser Ser Leu
    50   55   60

Ala Gln Pro Cys Trp Leu Val Phe Ser Ile Tyr Phe Ser Lys Ile Phe
65   70   75   80

Val Ser Val

4800

```
<210> 5399
<211> 227
<212> PRT
<213> Homo sapiens

<400> 5399
Phe Ile Leu Arg Arg Leu Thr Met Asn Glu Leu Asn Ser Val Ser Asp
 1               5                  10                  15

Leu Asp Arg Cys His Leu Tyr Leu Met Val Leu Thr Glu Leu Ile Asn
            20                  25                  30

Leu His Leu Lys Val Gly Trp Lys Arg Gly Asn Pro Ile Trp Arg Val
        35                  40                  45

Ile Ser Leu Leu Lys Asn Ala Ser Ile Gln His Leu Gln Glu Met Asp
    50                  55                  60

Ser Gly Gln Glu Pro Thr Val Gly Ser Gln Ile Gln Arg Val Val Ser
65                  70                  75                  80

Met Ala Ala Leu Ala Met Val Cys Glu Ala Ile Asp Gln Lys Pro Glu
                85                  90                  95

Leu Gln Leu Asp Ser Leu His Ala Gly Pro Leu Glu Ser Phe Leu Ser
            100                 105                 110

Ser Leu Gln Leu Asn Gln Thr Leu Gln Lys Pro His Ala Glu Glu Gln
        115                 120                 125

Ser Ser Tyr Ala His Pro Leu Glu Cys Ser Ser Val Leu Glu Glu Ser
    130                 135                 140

Ser Ser Ser Gln Gly Trp Gly Lys Ile Val Ala Gln Tyr Ile His Asp
145                 150                 155                 160

Gln Trp Val Cys Leu Ser Phe Leu Leu Lys Lys Tyr His Thr Leu Ile
                165                 170                 175

Pro Thr Thr Gly Ser Glu Ile Leu Glu Pro Phe Leu Pro Ala Val Gln
            180                 185                 190

Met Pro Ile Arg Thr Leu Gln Ser Ala Leu Glu Ala Leu Thr Val Leu
        195                 200                 205

Ser Ser Asp Gln Val Leu Pro Val Phe His Cys Leu Lys Val Leu Val
    210                 215                 220

Pro Asn Phe
225
```

4801

```
<210> 5400
<211> 55
<212> PRT
<213> Homo sapiens

<400> 5400
Gln Thr Cys Arg Phe Leu Leu Met Trp Glu Lys Ile Leu Ile Ile Asn
 1               5                  10                  15

Asp Ile Lys Val Ile Ile Phe Ser Tyr Val Tyr Arg Tyr Leu Tyr Phe
                20                  25                  30

Phe Leu Asn Glu Leu Leu Met Thr Phe Val Tyr Phe Tyr Leu Gly Leu
            35                  40                  45

Leu Leu Ser His Leu Phe Leu
        50                  55
```

```
<210> 5401
<211> 90
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (17)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (78)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (84)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5401
Gln Ala Arg Leu Pro Ser Ala Asn Leu Ser Asn Trp Gly Gly Glu Arg
 1               5                  10                  15

Xaa Ser Ser Ser Glu Gly Arg Ala Arg Cys Gln Ile Cys Ser Ser Ala
                20                  25                  30

Pro Ala Ser Ala Ala Arg Arg Arg Ala Glu Gly Ala Pro Gly Pro Arg
            35                  40                  45
```

4802

Pro Val Thr Gly Arg Ala Gly Ala Pro Ala Val Arg Gly Arg Arg Arg
    50   55   60

Gly Pro Cys Arg Cys Trp Gly Thr Arg Tyr Arg Pro Cys Xaa Pro Arg
65   70   75   80

Pro Pro Pro Xaa Gly Pro Leu Leu Ala Pro
            85   90

<210> 5402
<211> 48
<212> PRT
<213> Homo sapiens

<400> 5402
Ile Arg His Glu Glu Leu Arg Lys Glu Gly Phe Asp Pro Ala Ile Val
 1   5   10   15

Lys Asp Pro Leu Phe Tyr Leu Asp Ala Gln Lys Gly Arg Tyr Val Pro
            20   25   30

Leu Asp Gln Glu Ala Tyr Ser Arg Ile Gln Ala Gly Glu Glu Lys Leu
        35   40   45

<210> 5403
<211> 100
<212> PRT
<213> Homo sapiens

<400> 5403
Phe Gly Thr Arg Thr Lys Pro Ile Lys Pro Ala Leu Lys Ser Ala Glu
 1   5   10   15

Val Glu Leu Lys Thr Gly Gly Asn Asn Ser Asn Gln Val Ser Glu Thr
            20   25   30

Asp Glu Lys Glu Asp Leu Leu His Glu Asn Arg Leu Met Gln Asp Glu
        35   40   45

Ile Ala Arg Leu Arg Leu Glu Lys Asp Thr Ile Lys Asn Gln Asn Leu
    50   55   60

Glu Lys Lys Tyr Leu Lys Asp Phe Glu Ile Val Lys Arg Lys His Glu

4803

```
          65                    70                    75                    80

Asp Leu Gln Lys Ala Leu Lys Arg Glu Trp Gly Asn Ile Ser Lys Asn
                85                    90                    95

Asp Ser Leu Leu
            100




<210> 5404
<211> 38
<212> PRT
<213> Homo sapiens

<400> 5404
Pro His Arg Thr Ala Phe Ser Cys Phe Ser Asp Thr Leu Met Lys Val
 1               5                   10                  15

Trp Arg Ser Gly Asp Ile Ile Asp Lys Ile Tyr Gln Phe Pro Glu Lys
                20                  25                  30

Thr Leu Asp Leu Lys Thr
            35




<210> 5405
<211> 62
<212> PRT
<213> Homo sapiens

<400> 5405
Asp His Thr Gly Gln Arg Gly Leu His Ser His Leu Arg Leu Gln Asp
 1               5                   10                  15

Gly Arg Pro Ala Ala Gly Gly Thr Arg Gly His Arg Ala Pro Leu Pro
                20                  25                  30

Leu Val Pro Asn Ser Cys Ser Pro Gly Asp Pro Leu Val Leu Glu Arg
            35                  40                  45

Pro Pro Pro Arg Trp Ser Thr Ser Phe Val Pro Leu Val Ser
        50                  55                  60




<210> 5406
<211> 183
<212> PRT
<213> Homo sapiens
```

4804

<220>
<221> SITE
<222> (83)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (125)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (130)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5406
Leu Pro Pro Gln Ala Phe Asn His Ile Ala Lys Leu Cys Ser Leu Lys
 1   5   10   15

Arg Leu Val Leu Tyr Arg Thr Lys Val Glu Ile Glu Asp Tyr Asp Val
            20   25   30

Ile Ala Ser Met Ile Gly Ala Lys Cys Lys Lys Leu Arg Thr Leu Asp
            35   40   45

Leu Trp Arg Cys Lys Asn Ile Thr Glu Asn Gly Ile Ala Glu Leu Ala
        50   55   60

Ser Gly Cys Pro Leu Leu Glu Glu Leu Asp Leu Gly Trp Cys Gln Leu
65   70   75   80

Cys Arg Xaa His Arg Val Phe Thr Arg Leu Ala His Gln Leu Pro Asn
            85   90   95

Leu Gln Lys Leu Phe Leu Thr Ala Asn Arg Ser Val Cys Asp Thr Asp
            100   105   110

Ile Asp Glu Leu Ala Cys Asn Cys Thr Arg Leu Gln Xaa Leu Asp Ile
        115   120   125

Leu Xaa Thr Arg Met Val Ser Pro Ala Ser Leu Arg Lys Leu Leu Glu
    130   135   140

Ser Cys Lys Asp Leu Ser Leu Leu Asp Val Ser Phe Cys Ser Gln Ile
145   150   155   160

Asp Asn Arg Ala Val Leu Glu Leu Asn Ala Ser Phe Pro Lys Val Phe
            165   170   175

Ile Lys Lys Ser Phe Thr Gln

4805

180

```
<210> 5407
<211> 89
<212> PRT
<213> Homo sapiens

<400> 5407
Ser Ser Trp Val Gly Gly Ser Leu Arg Gln Ala Ala Thr Leu Glu Gly
1               5                   10                  15

Glu Gln Gly Ser Ala Val Ser Ala Ala Ser His Ala Arg Ser Asp Leu
            20                  25                  30

Ser Leu Gly Thr Pro Gln Glu Pro Glu Asp Ser Ser Gly Gln Cys Arg
        35                  40                  45

Trp Gly Val Gly Gly Glu Ser Gly Arg Glu Ala Leu Arg Ala Pro Ser
    50                  55                  60

Pro Thr Thr Asn Leu Ala Leu Val Val Ile Phe Arg Gln Asn Phe Val
65                  70                  75                  80

Val Phe Phe Pro Phe Tyr Asp Gly Phe
                85
```

```
<210> 5408
<211> 322
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (3)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5408
His Ile Xaa Thr His Thr Gly Glu Arg Pro Phe Lys Cys Pro Phe Glu
1               5                   10                  15

Gly Cys Gly Arg Ser Phe Thr Thr Ser Asn Ile Arg Lys Val His Val
            20                  25                  30

Arg Thr His Thr Gly Glu Arg Pro Tyr Tyr Cys Thr Glu Pro Gly Cys
        35                  40                  45

Gly Arg Ala Phe Ala Ser Ala Thr Asn Tyr Lys Asn His Val Arg Ile
```

4806

```
         50                    55                    60

His Thr Gly Glu Lys Pro Tyr Val Cys Thr Val Pro Gly Cys Asp Lys
65                  70                  75                  80

Arg Phe Thr Glu Tyr Ser Ser Leu Tyr Lys His His Val Val His Thr
                85                  90                  95

His Ser Lys Pro Tyr Asn Cys Asn His Cys Gly Lys Thr.Tyr Lys Gln
            100                 105                 110

Ile Ser Thr Leu Ala Met His Lys Arg Thr Ala His Asn Asp Thr Glu
        115                 120                 125

Pro Ile Glu Glu Glu Gln Glu Ala Phe Phe Glu Pro Pro Gly Gln
    130                 135                 140

Gly Glu Asp Val Leu Lys Gly Ser Gln Ile Thr Tyr Val Thr Gly Val
145                 150                 155                 160

Glu Gly Asp Asp Val Val Ser Thr Gln Val Ala Thr Val Thr Gln Ser
                165                 170                 175

Gly Leu Ser Gln Gln Val Thr Leu Ile Ser Gln Asp Gly Thr Gln His
            180                 185                 190

Val Asn Ile Ser Gln Ala Asp Met Gln Ala Ile Gly Asn Thr Ile Thr
        195                 200                 205

Met Val Thr Gln Asp Gly Thr Pro Ile Thr Val Pro Ala His Asp Ala
    210                 215                 220

Val Ile Ser Ser Ala Gly Thr His Ser Val Ala Met Val Thr Ala Glu
225                 230                 235                 240

Gly Thr Glu Gly Gln Gln Val Ala Ile Val Ala Gln Asp Leu Ala Ala
                245                 250                 255

Phe His Thr Ala Ser Ser Glu Met Gly His Gln Gln His Ser His His
        260                 265                 270

Leu Val Thr Thr Glu Thr Arg Pro Leu Thr Leu Val Ala Thr Ser Asn
    275                 280                 285

Gly Thr Gln Ile Ala Val Gln Leu Gly Glu Gln Pro Ser Leu Glu Glu
    290                 295                 300

Ala Ile Arg Ile Ala Ser Arg Ile Gln Gln Gly Glu Thr Pro Gly Leu
305                 310                 315                 320

Asp Asp
```

<210> 5409
<211> 64
<212> PRT
<213> Homo sapiens

<400> 5409
Leu Arg Leu Gln Glu Pro Ala Thr Thr His Pro Cys Pro Pro Thr Leu
1   5   10   15

Gly Leu Ile Phe Val Thr Ser Pro His Tyr Ser Glu Leu Val Arg Pro
                20   25   30

Leu His Phe Cys Phe Thr Gln Leu Thr Trp Phe Ala His Thr Asp Thr
            35   40   45

Asn Lys His Leu Ser Ile Pro Met Ser Leu Leu Ser Ser Lys Asn Thr
        50   55   60

<210> 5410
<211> 27
<212> PRT
<213> Homo sapiens

<400> 5410
Ser Thr His Ala Ser Gly Ser Arg Ser Arg Ala Ala Ala Leu Phe Phe
1   5   10   15

Phe Phe Lys Arg Phe Cys Thr Gly Lys Lys Lys
                20   25

<210> 5411
<211> 205
<212> PRT
<213> Homo sapiens

<400> 5411
Ala Ala Ala Ala Ala Gly Asp Pro Gly Ala Met Gly Arg Ala Arg Asp
1   5   10   15

Ala Ile Leu Asp Ala Leu Glu Asn Leu Thr Ala Glu Glu Leu Lys Lys

4808

```
                20                    25                    30
     Phe Lys Leu Lys Leu Leu Ser Val Pro Leu Arg Glu Gly Tyr Gly Arg
             35                    40                    45

     Ile Pro Arg Gly Ala Leu Leu Ser Met Asp Ala Leu Asp Leu Thr Asp
             50                    55                    60

     Lys Leu Val Ser Phe Tyr Leu Glu Thr Tyr Gly Ala Glu Leu Thr Ala
     65                    70                    75                    80

     Asn Val Leu Arg Asp Met Gly Leu Gln Glu Met Ala Gly Gln Leu Gln
                     85                    90                    95

     Ala Ala Thr His Gln Gly Ser Gly Ala Ala Pro Ala Gly Ile Gln Ala
                     100                   105                   110

     Pro Pro Gln Ser Ala Ala Lys Pro Gly Leu His Phe Ile Asp Gln His
                     115                   120                   125

     Arg Ala Ala Leu Ile Ala Arg Val Thr Asn Val Glu Trp Leu Leu Asp
             130                   135                   140

     Ala Leu Tyr Gly Lys Val Leu Thr Asp Glu Gln Tyr Gln Ala Val Arg
     145                   150                   155                   160

     Ala Glu Pro Thr Asn Pro Ser Lys Met Arg Lys Leu Phe Ser Phe Thr
                     165                   170                   175

     Pro Ala Trp Asn Trp Thr Cys Lys Asp Leu Leu Leu Gln Ala Leu Arg
                     180                   185                   190

     Glu Ser Gln Ser Tyr Leu Val Glu Asp Leu Glu Arg Ser
                     195                   200                   205
```

```
<210> 5412
<211> 158
<212> PRT
<213> Homo sapiens

<400> 5412
Ser Cys Cys Arg Cys Arg Cys Ala Arg Ala Thr Gly Ala Arg Asp Ala
1               5                   10                  15

Ile Leu Asp Ala Leu Glu Asn Leu Thr Ala Glu Glu Leu Lys Lys Phe
         20                  25                  30

Lys Leu Val Ser Phe Tyr Leu Glu Thr Tyr Gly Ala Glu Leu Thr Ala
         35                  40                  45
```

4809

Asn Val Leu Arg Asp Met Gly Leu Gln Glu Met Ala Gly Gln Leu Gln
    50   55   60

Ala Ala Thr His Gln Gly Ser Gly Ala Ala Pro Ala Gly Ile Gln Ala
    65   70   75   80

Pro Pro Gln Ser Ala Ala Lys Pro Gly Leu His Phe Ile Asp Gln His
            85   90   95

Arg Ala Ala Leu Ile Ala Arg Val Thr Asn Val Glu Trp Leu Leu Asp
            100   105   110

Ala Leu Tyr Gly Lys Val Leu Thr Asp Glu Gln Tyr Gln Ala Val Arg
        115   120   125

Pro Ser Pro Pro Thr Gln Ala Arg Cys Gly Ser Ser Ser Val Ser His
    130   135   140

Gln Pro Gly Thr Gly Pro Ala Arg Thr Cys Ser Ser Arg Pro
145   150   155

<210> 5413
<211> 40
<212> PRT
<213> Homo sapiens

<400> 5413
Pro Glu Phe Pro Gly Arg Pro Thr Arg Pro Lys Lys Lys Gln Met Leu
    1   5   10   15

Lys Ser Tyr Trp Gln Ser Lys Leu Lys Leu Ala Ala Ile Phe Tyr Ile
            20   25   30

Ile Ile Ser Ala Asn Pro Ile Phe
            35   40

<210> 5414
<211> 69
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (67)
<223> Xaa equals any of the naturally occurring L-amino acids

4810

<400> 5414

```
Ser Cys Leu Met Phe Phe Asn Met Pro Ser Tyr Lys Tyr Phe Ile Gln
1               5                   10                  15

Tyr Val Val Phe Val Asn Leu Thr Asn Asp Ile Lys His Lys Leu Gln
                20              25                  30

Cys Arg Gln Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
            35              40                  45

Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
        50                  55                  60

Lys Gly Xaa Pro Phe
65
```

<210> 5415
<211> 186
<212> PRT
<213> Homo sapiens

<400> 5415

```
Ala His Ala Ser Asp Leu Arg Ala Glu Glu Ile Asp Pro Val Tyr Phe
1               5                   10                  15

Asp Leu His Pro Gly Gln Gly His Thr Lys Pro Glu Tyr Tyr Tyr Pro
                20              25                  30

Asn Phe Leu Pro Ser Pro Phe Ser Ser Trp Asp Leu Arg Asp Met Ala
            35              40                  45

Leu Leu Leu Asn Ala Glu Asn Lys Thr Glu Ala Val Pro Arg Val Gly
        50                  55                  60

Gly Leu Leu Gly Lys Tyr Ile Asp Arg Leu Ile Gln Leu Glu Trp Leu
65                  70                  75                  80

Gln Val Gln Thr Val Gln Cys Glu Lys Ala Lys Gly Gly Lys Ala Arg
                    85                  90                  95

Pro Pro Thr Ala Pro Gly Thr Ser Gly Ala Leu Lys Ser Pro Gly Arg
                100                 105                 110

Ser Lys Leu Ile Ala Ser Ala Leu Ser Lys Pro Leu Pro His Gln Glu
            115                 120                 125

Gly Ala Ser Lys Ser Gly Pro Ser Arg Lys Lys Ala Phe His His Glu
        130                 135                 140
```

4811

```
Glu Ile His Pro Ser His Tyr Ala Phe Glu Thr Ser Pro Arg Pro Ile
145             150             155             160

Asp Val Leu Gly Gly Thr Arg Phe Cys Ser Gln Arg Gln Thr Leu Glu
                165             170             175

Met Arg Thr Glu Glu Lys Lys Lys Lys Lys
                180             185
```

<210> 5416
<211> 39
<212> PRT
<213> Homo sapiens

<400> 5416
```
Cys Tyr Ser Cys Gln Thr Asn Ser Ala Lys Ile Phe Lys Val Thr Arg
1               5               10              15

Gly Lys Arg Met Thr Asn Arg Ser Ala Ser Glu Tyr Ile Phe Gln Asn
                20              25              30

Val Gly Lys Lys Leu Leu Asn
            35
```

<210> 5417
<211> 54
<212> PRT
<213> Homo sapiens

<400> 5417
```
Gly Ile Ser Ser Gly Arg Thr Arg Arg Glu Ser Cys Glu Leu Tyr Cys
1               5               10              15

Ile Met Tyr Ile Pro Asp Leu Ile Leu Tyr Arg Thr Phe Tyr Ser Asp
                20              25              30

Ile Asn Leu Leu His Lys His Phe Ser Asn Asp Thr Lys Ile Thr Asp
            35              40              45

Lys Ile Tyr Tyr Ile Gln
        50
```

<210> 5418
<211> 91
<212> PRT

4812

<213> Homo sapiens

<400> 5418
Val Pro Pro Thr Pro Gly Gln His Gln Asp Gly Ser Ser Leu Gly Ala
1   5   10   15

Phe Val Ser Pro Pro Cys Leu Cys Ser Glu Cys Ala Pro His Phe Ser
            20   25   30

Ala Thr Leu Thr Leu Ser Leu Ile Trp Ser Cys Leu Thr Ser Leu Leu
        35   40   45

Tyr Ala Leu Leu Leu Ser Ile Ser Ser Ala Leu Met Pro Ala Gly Val
    50   55   60

Met Pro Glu Ile Ile Ser Glu Lys Ala Arg Gln Phe Cys Val Cys Val
65   70   75   80

Cys Ala His Arg Gly Val Leu Val Val Leu Ile
            85   90

<210> 5419
<211> 36
<212> PRT
<213> Homo sapiens

<400> 5419
Val Lys Asn Gly Lys Gln Lys Val Thr Ala Val Met Asn Ile Leu Val
1   5   10   15

Gln Ile Leu Val Leu Asn Leu Thr Pro Glu Ser Lys Ile Leu Gly Ser
            20   25   30

Leu Phe Pro Val
        35

<210> 5420
<211> 96
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (52)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

4813

```
<221> SITE
<222> (72)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (96)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5420
Lys Ser Lys Glu Asn Arg Asn Gln Phe Glu Gly Leu Gln Gly Gly Leu
 1               5                  10                  15


Leu Ala Gln Leu Ser Ile Asn Thr Tyr Gly Val Ile Ala Val Phe Ser
            20                  25                  30


Arg Gly Val Leu Leu Arg Ser Gly Phe Leu Gly Leu His Ala Ala Met
            35                  40                  45


Asp Leu Asp Xaa Pro Ser Val Trp Gly Ser Leu Lys Gln Arg Thr Arg
        50              55                  60


Pro Leu Leu Ile Asn Leu Ser Xaa Lys Lys Val Lys Lys Asn Pro Ser
65                  70                  75                  80


Lys Pro Pro Asp Leu Arg Ala Arg His His Leu Asp Arg Arg Leu Xaa
            85                  90                  95
```

```
<210> 5421
<211> 36
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (6)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (12)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5421
Gln Asn Ile Ser Ser Xaa Leu Ile Gly Pro Thr Xaa Val Phe Arg Val
 1               5                  10                  15
```

4814

```
Met Lys Leu Arg Phe Phe Cys Val Trp Leu His His Glu Ile Leu Arg
              20              25              30

Arg Pro Lys Pro
          35



<210> 5422
<211> 65
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (57)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5422
Xaa Lys Cys Lys Tyr Lys Thr Phe Gln Ile Lys Ile Glu Tyr Ala His
 1               5              10              15

Cys Ser Lys Ala Lys Leu Leu Pro Tyr Tyr Ile Tyr Phe Thr Ser Leu
              20              25              30

Ile Phe Ser Pro Ser Lys Met His Trp Tyr Ser Gly Leu Glu Ser Glu
          35              40              45

Ser Phe Ala Ile Lys Leu Thr Tyr Xaa Gly Phe Asn Pro Leu Lys Val
      50              55              60

Gln
 65



<210> 5423
<211> 67
<212> PRT
<213> Homo sapiens

<400> 5423
Gly Thr Ser Arg Pro Ser His Tyr His Val Leu Trp Asp Asp Asn Cys
 1               5              10              15
```

4815

```
Phe Thr Ala Asp Glu Leu Gln Leu Leu Thr Tyr Gln Leu Cys His Thr
            20              25              30

Tyr Val Arg Cys Thr Arg Ser Val Ser Ile Pro Ala Pro Ala Tyr Tyr
            35              40              45

Ala His Leu Val Ala Phe Arg Ala Arg Tyr His Leu Val Asp Lys Glu
    50              55              60

His Asp Arg
 65
```

```
<210> 5424
<211> 96
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (83)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (85)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5424
Pro Ile Gly Trp Lys Thr Arg Pro Ile Glu Glu Leu Gly Asn Val Ser
 1               5               10              15

Phe Cys Tyr Phe Cys Tyr Ser Ser Leu Gly Phe Ile Val Ser Phe Phe
            20              25              30

Ile Phe Lys Ile Leu Cys Leu Lys Val Phe Leu Leu Asn Tyr Glu Val
            35              40              45

Asp Met His Val Tyr Ile Tyr Val Lys Tyr Leu Leu Cys Lys Val Phe
    50              55              60

Phe Val Tyr Ser Leu Lys Arg Ser Leu Tyr Leu Asn Lys Ser Glu Gly
 65              70              75              80

Gln Gln Xaa Lys Xaa Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
            85              90              95
```

4816

<210> 5425
<211> 25
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (9)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5425
Arg Thr Pro Val Val Pro Ala Thr Xaa Glu Ala Lys Val Gly Gly Ser
 1   5   10   15

Leu Glu Pro Gly Arg Gln Arg Leu Gln
              20   25

<210> 5426
<211> 82
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (51)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (60)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (71)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (74)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5426
Glu Gln Ser Arg Gln Gly Ile Pro Asn Arg Ile Asn Ser Arg Phe Leu
 1   5   10   15

Ile Gln Lys Pro Cys Lys Pro Arg Lys Ala Met Gly Asp Ile Leu Gln

4817

```
                20                    25                    30
Asn Ala Glu Ile Lys Thr Val Gln Gln Thr Phe Pro His Pro Gln Gln
            35                    40                    45
Lys Ser Xaa Asn Lys Gly Lys Ser Cys Cys Met Xaa Asn Leu Asn Lys
        50                    55                    60
Ile Gly Phe Pro Ala Gly Xaa Phe Gly Xaa Asn Phe Pro Pro Leu Asn
65                    70                    75                    80
Val Pro
```

<210> 5427
<211> 168
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (5)
<223> Xaa equals any of the naturally occurring L-amino acids

```
<400> 5427
Arg Gly Leu Ala Xaa Lys His Pro Gly Arg Val Gly Gln Ala Ala Leu
    1               5                   10                  15

Tyr Gly Cys Gly Cys Trp Ala Glu Asn Thr Gly Ala His Asn Pro Tyr
                20                  25                  30

Ser Thr Ala Val Ser Thr Ser Gly Cys Gly Glu His Leu Val Arg Thr
            35                  40                  45

Ile Leu Ala Arg Glu Cys Ser His Ala Leu Gln Ala Glu Asp Ala His
        50                  55                  60

Gln Ala Leu Leu Glu Thr Met Gln Asn Lys Phe Ile Ser Ser Pro Phe
65                  70                  75                  80

Leu Ala Ser Glu Asp Gly Val Leu Gly Gly Val Ile Val Leu Arg Ser
                85                  90                  95

Cys Arg Cys Ser Ala Glu Pro Asp Ser Ser Gln Asn Lys Gln Thr Leu
            100                 105                 110

Leu Val Glu Phe Leu Trp Ser His Thr Thr Glu Ser Met Cys Val Gly
            115                 120                 125
```

4818

```
Tyr Met Ser Ala Gln Asp Gly Lys Ala Lys Thr His Ile Ser Arg Leu
    130             135             140
```

```
Pro Pro Gly Ala Val Ala Gly Gln Ser Val Ala Ile Glu Gly Gly Val
145             150             155             160
```

```
Cys Arg Leu Glu Ser Pro Val Asn
            165
```

```
<210> 5428
<211> 81
<212> PRT
<213> Homo sapiens
```

```
<220>
<221> SITE
<222> (72)
<223> Xaa equals any of the naturally occurring L-amino acids
```

```
<400> 5428
Phe Asn Phe Glu Phe Lys Pro Lys Phe Ile Gly Arg Leu Pro Phe Asp
 1               5               10              15
```

```
Leu Pro Leu Pro Pro His Leu Val Leu Ser Cys Ile Tyr Thr Pro Gly
            20              25              30
```

```
Pro Cys Gly Gly Ala Ala Gly Gly Ser Cys Ala Pro Glu Met Arg Leu
        35              40              45
```

```
Glu Arg Glu Leu Ala Ser Leu Leu Pro Ser Ser Val Ser Lys Glu Pro
    50              55              60
```

```
Arg Pro Ser Gly Pro Ala Ser Xaa Lys Arg Trp Trp Asn Pro Cys Ala
 65             70              75              80
```

```
Gly
```

```
<210> 5429
<211> 56
<212> PRT
<213> Homo sapiens
```

```
<220>
<221> SITE
<222> (40)
<223> Xaa equals any of the naturally occurring L-amino acids
```

4819

<400> 5429
Tyr Met Leu Gly Glu Lys Ile Tyr Glu Asn Phe Thr Ile Ile Phe Cys
1   5   10   15

Leu Asp Asn Arg Ser Glu Gly Phe Tyr Pro Thr Trp Lys Val Lys Gly
            20   25   30

Leu Gly Leu Thr Asp Phe Leu Xaa Phe Ser Leu Asp Phe Met Lys Ser
        35   40   45

Met Leu Ser Phe Ser Gln Lys His
    50   55

<210> 5430
<211> 62
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (42)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (57)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5430
Gln Cys Arg Glu Val His Leu Glu Lys Arg Arg Gly Glu Gly Leu Gly
1   5   10   15

Val Ala Leu Val Glu Ser Gly Trp Gly Ser Leu Leu Pro Thr Ala Val
            20   25   30

Ile Ala Asn Leu Leu His Gly Gly Pro Xaa Glu Arg Ser Gly Ala Leu
        35   40   45

Ser Ile Gly Asp Pro Leu Thr Gly Xaa Lys Gly Asp Gln Pro
    50   55   60

<210> 5431
<211> 133
<212> PRT
<213> Homo sapiens

4820

```
<220>
<221> SITE
<222> (36)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (129)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (130)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (132)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5431
Phe Leu Gln His Trp Ala Ile Arg Asn Asn Phe Leu Lys Ile Thr Val
 1               5                   10                  15

Leu Tyr Lys Tyr Leu Lys Phe Lys Tyr Arg Lys Tyr Leu Lys Gln Lys
                20                  25                  30

Ala Leu Leu Xaa Gly His Asp Thr Ser Ala Leu Trp Gln Cys Arg Leu
            35                  40                  45

Leu Arg Thr Gln Pro Cys Ser Pro Ser Val Cys Ala Pro Ser Leu Ser
        50              55                  60

Ser Phe Ala Val Ile Thr His Thr Gly Leu Pro Val Trp Ser Leu Glu
65                  70                  75                      80

Lys Pro Gly Phe Gln Ser Thr Val Glu His Arg Ile Leu Leu Leu Val
                85                  90                  95

Trp Met Phe Asn Glu Leu Tyr Phe Lys Tyr Gln Arg Leu Leu Asn Lys
                100                 105                 110

Asp Asn Val Cys Phe Ser Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
                115                 120                 125

Xaa Xaa Lys Xaa Lys
        130

<210> 5432
```

4821

<211> 64
<212> PRT
<213> Homo sapiens

<400> 5432
Val Lys Gly Glu Trp Ser Gln Tyr Pro Gln Lys Cys Ser Lys Arg Ser
1   5   10   15

Asn Ser Pro Leu Lys Met Ser Leu Phe Leu Ser Met Leu Tyr Pro Gly
                20   25   30

Val Leu Val Glu Gly Trp Gly Asn Gln Lys Ser Arg Phe Thr Phe Asn
        35   40   45

Ile Phe Leu Asn Tyr Ile His Phe Leu Lys Arg Asn Lys Lys Cys Lys
    50   55   60

<210> 5433
<211> 79
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (12)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5433
His Ile Arg Asn Lys Ile Leu Gly Tyr Phe Ile Xaa Leu Ala Tyr Phe
1   5   10   15

Phe His Asn Leu Arg Ile Thr Val Phe Val Glu Glu Ile Arg Gln Ala
                20   25   30

Asn Lys Val Ala Lys Glu Ala Ala Asn Arg Trp Thr Asp Asn Ile Phe
        35   40   45

Ala Ile Lys Ser Trp Ala Lys Arg Lys Phe Gly Phe Glu Glu Asn Lys
    50   55   60

Ile Asp Arg Thr Phe Gly Ile Pro Glu Asp Phe Asp Tyr Ile Asp
65   70   75

<210> 5434

4822

<211> 183
<212> PRT
<213> Homo sapiens

<400> 5434
Gly Leu Leu Val Gly Val Gly Ala Ala Ala Val Met Pro Gly Ile Val
 1   5   10   15

Glu Leu Pro Thr Leu Glu Glu Leu Lys Val Asp Glu Val Lys Ile Ser
                20   25   30

Ser Ala Val Leu Lys Ala Ala Ala His His Tyr Gly Ala Gln Cys Asp
            35   40   45

Lys Pro Asn Lys Glu Phe Met Leu Cys Arg Trp Glu Glu Lys Asp Pro
        50   55   60

Arg Arg Cys Leu Glu Glu Gly Lys Leu Val Asn Lys Cys Ala Leu Asp
65   70   75   80

Phe Phe Arg Gln Ile Lys Arg His Cys Ala Glu Pro Phe Thr Glu Tyr
                85   90   95

Trp Thr Cys Ile Asp Tyr Thr Gly Gln Gln Leu Phe Arg His Cys Arg
            100   105   110

Lys Gln Gln Ala Lys Phe Asp Glu Cys Val Leu Asp Lys Leu Gly Trp
        115   120   125

Val Arg Pro Asp Leu Gly Glu Leu Ser Lys Val Thr Lys Val Lys Thr
    130   135   140

Asp Arg Pro Leu Pro Glu Asn Pro Tyr His Ser Arg Pro Arg Pro Asp
145   150   155   160

Pro Ser Pro Glu Ile Glu Gly Asp Leu Gln Pro Ala Thr His Gly Ser
                165   170   175

Arg Phe Tyr Phe Trp Thr Lys
            180

<210> 5435
<211> 65
<212> PRT
<213> Homo sapiens

<400> 5435
Gly Thr Gly Cys Cys Ala Glu Gly Arg Pro Glu Ser Gln Ser Ile Phe
 1   5   10   15

4823

```
Phe Thr Gly Ser Ala Gly Thr Gly Lys Ser Tyr Leu Leu Lys Arg Ile
            20                  25                  30

Leu Gly Ser Leu Pro Pro Thr Gly Thr Val Ala Thr Ala Ser Thr Gly
            35                  40                  45

Val Ala Ala Cys His Ile Gly Gly Thr Thr Leu His Ala Phe Ala Gly
        50                  55                  60

Lys
65
```

```
<210> 5436
<211> 48
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (18)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (34)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (42)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (44)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5436
His Xaa Thr Leu Thr Lys Gly Asn Lys Ser Trp Ser Ser Thr Ala Val
 1               5                  10                  15

Gln Xaa Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn Ser Ala
            20                  25                  30
```

4824

```
Arg Xaa Arg Glu Leu Val Ser Ser Phe Xaa Phe Xaa Phe Phe His Gly
        35              40              45
```

<210> 5437
<211> 62
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (46)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5437
```
Glu Leu Trp Ser Pro Cys Leu Val Leu Phe Lys Thr Leu Cys Tyr Thr
 1               5               10              15

Gly Val Asp Pro Gly Leu Lys Val Ile Gln Phe Trp Gly Leu Ser Leu
            20              25              30

Arg Lys Arg Ile Leu Lys Tyr Leu Thr Phe Ala Asn Ile Xaa Lys Ile
            35              40              45

Tyr Cys His Ile Asn Met Leu Leu Gly Pro Leu Leu Gly Pro
    50              55              60
```

<210> 5438
<211> 163
<212> PRT
<213> Homo sapiens

<400> 5438
```
Ser Phe Phe Phe Phe Ser Arg Ser His Val Ser Leu Leu Leu Pro Thr
 1               5               10              15

Ala Thr Tyr Phe Ile Pro His Gly Ser Arg His Ser Ser Thr Leu Thr
            20              25              30

Asn Phe Leu Thr Pro Ser Ser Phe Leu Glu Ile Ile Ser Ser Pro Cys
            35              40              45

Ala Glu Thr Val Ile Ala Leu Ser Ala Glu Met Ala Val Ser Ser Gln
    50              55              60
```

4825

```
Gln Gly Glu Ile Met Glu Ser Arg Ile Phe Phe Gln Gly Ser His Ala
 65              70               75               80

His Phe Pro Thr Cys Met Asn Val Asp Thr Ala Ala Thr Val Leu Ala
                85               90               95

Val Asn Val Asn Leu Ala Ser Asn His Cys Ser Gln Gly Asn Val Pro
            100              105              110

Ile Arg Arg Arg Leu Ser Gly Thr Leu Ile Leu Thr Gly Arg Trp Asp
        115              120              125

Ile Leu Arg Asp Pro Glu Ala Gly Cys His Leu Leu Asn Phe Pro Glu
    130              135              140

Gly Cys Leu Gly Ile Cys Phe Leu Phe Ile Leu Glu Leu Phe Phe Leu
145              150              155              160

Phe Met Gly
```

```
<210> 5439
<211> 68
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (62)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (63)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (66)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5439
Gln Gly Ile Leu Tyr Phe His Tyr Asn Gln Ile Ile Glu Ile Thr Cys
  1           5               10               15

Val Lys Gly Leu Gln Glu Tyr Ile Gln Phe Leu Asn Ile Leu Ile Tyr
            20               25               30
```

4826

```
Leu Leu Ser Asp Asn Leu Ile Leu Leu Asn Tyr His Leu Pro Leu Ser
        35              40              45

Tyr Phe Ile Ile Asn Ser Val Gln Phe Pro Pro Lys Lys Xaa Xaa Tyr
        50              55              60

Leu Xaa Asn Ile
 65
```

```
<210> 5440
<211> 170
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (7)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (11)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (13)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (19)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (21)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (23)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (163)
<223> Xaa equals any of the naturally occurring L-amino acids
```

4827

```
<400> 5440
Val Ile Pro Trp Arg Thr Xaa Ser Ala Asn Xaa Glu Xaa Asp Leu His
 1               5                  10              15

Tyr Leu Xaa Leu Xaa Thr Xaa Thr Trp Ser Gly Arg Ile Thr Ile Asn
            20          25                  30

Gly Glu Ser Pro Lys His Arg Ser Trp His Thr Leu Thr Pro Ile Ala
        35              40                  45

Asp Asp Lys Leu Phe Leu Cys Gly Gly Leu Ser Ala Asp Asn Ile Pro
        50              55                  60

Leu Ser Asp Gly Trp Ile His Asn Val Thr Thr Asn Cys Trp Lys Gln
 65              70                  75                  80

Leu Thr His Leu Pro Lys Thr Arg Pro Arg Leu Trp His Thr Ala Cys
            85              90                  95

Leu Gly Lys Glu Asn Glu Ile Met Val Phe Gly Gly Ser Lys Asp Asp
            100             105             110

Leu Leu Ala Leu Asp Thr Gly His Cys Asn Asp Leu Leu Ile Phe Gln
        115             120             125

Thr Gln Pro Tyr Ser Leu Leu Arg Ser Cys Leu Asp Cys Ile Gly Lys
    130             135             140

Asn Ser Ile Met Leu Glu Ser Gln Ile Ser Leu Leu Pro Pro Lys Leu
145             150             155             160

Leu Gln Xaa Val Leu Lys Lys Lys Lys Lys
            165             170


<210> 5441
<211> 120
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (111)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (112)
<223> Xaa equals any of the naturally occurring L-amino acids
```

4828

<400> 5441
```
Ile Gly Ser Val Pro Ala Val Pro Asn Gly Gln Cys Ile Gly Lys His
 1               5                   10                  15

Lys Lys Cys Asp His Asn Val Asp Cys Ser Asp Lys Ser Asp Glu Leu
             20                  25                  30

Asp Cys Tyr Pro Thr Glu Glu Pro Ala Pro Gln Ala Thr Asn Thr Val
         35                  40                  45

Gly Ser Val Ile Gly Val Ile Val Thr Ile Phe Val Ser Gly Thr Val
     50                  55                  60

Tyr Phe Ile Cys Gln Arg Met Leu Cys Pro Arg Met Lys Gly Asp Gly
 65                  70                  75                  80

Glu Thr Met Thr Asn Asp Tyr Val Val His Gly Pro Ala Ser Val Pro
             85                  90                  95

Leu Gly Tyr Val Pro His Pro Ser Ser Leu Ser Gly Ser Leu Xaa Xaa
            100             105                 110

Met Ser Arg Gly Lys Ser Met Ile
            115             120
```

<210> 5442
<211> 55
<212> PRT
<213> Homo sapiens

<400> 5442
```
Asn Met Tyr Lys Asn Gly Tyr Lys Met Val Glu Ala Thr Arg Ser Val
 1               5                   10                  15

Thr Gly Ile Ile His Ile Asn Thr Thr Lys Ile Gln Phe Asn Ala Lys
             20                  25                  30

Leu Asn Asp Ile Ile Leu His Gln Asn Leu Phe His Thr Lys Ala His
             35                  40                  45

Ala Ser Arg Val Ser Ile Arg
     50                  55
```

<210> 5443
<211> 125
<212> PRT
<213> Homo sapiens

4829

```
<220>
<221> SITE
<222> (73)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (84)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (105)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5443
Leu Leu Lys Arg Ser His Phe Asn Cys Phe Cys Tyr Ser Ile Tyr Cys
 1           5               10              15

His Ser Lys Tyr Ile Leu Thr Gln Asn Lys Leu Asn Asn Leu Cys Met
            20              25              30

Phe Val Cys Val Tyr Met His Thr Leu Phe Tyr Ile Lys Ile Leu Arg
        35              40              45

Leu Tyr Ser His Cys Ala Leu Trp Asn Lys Ala Ile Tyr Ile Asn Val
    50              55              60

Leu Tyr Val Tyr Val Leu Tyr Ile Xaa Lys Thr Phe His Leu Ile Tyr
65              70              75              80

Ile Cys Val Xaa Glu Tyr Met Cys Ala Cys Leu Ala Asp Ile Cys Ile
            85              90              95

Lys Tyr Lys His Ser Val Val Ile Xaa Ala Ile Cys Glu Ile Val Asn
        100             105             110

Phe Lys Ile Thr Ser Gly His Arg Leu Val Val Ile Ile
        115             120             125


<210> 5444
<211> 287
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (114)
```

4830

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5444
Gly Ala Met Ala Pro Lys Pro Gly Ala Glu Trp Ser Thr Ala Leu Ser
 1   5   10   15

His Leu Val Leu Gly Val Val Ser Leu His Ala Ala Val Ser Thr Ala
                20   25   30

Glu Ala Ser Arg Gly Ala Ala Ala Gly Phe Leu Leu Gln Val Leu Ala
            35   40   45

Ala Thr Thr Thr Leu Ala Pro Gly Leu Ser Thr His Glu Asp Cys Leu
        50   55   60

Ala Gly Ala Trp Val Ala Thr Val Ile Gly Leu Pro Leu Leu Ala Phe
65   70   75   80

Asp Phe His Trp Val Asn Gly Asp Arg Ser Ser Ala Asn Leu Leu Leu
                85   90   95

Gly Gly Gly Met Val Leu Ala Val Ala Gly Gly His Leu Gly Pro Glu
            100   105   110

Ala Xaa Cys Gly Trp Ser Gly Asn Ala Val Gly Gly Arg Ser Asp His
        115   120   125

Pro His Cys Ser Cys Leu His Gly Gln His Leu Trp Asp Val Gly Gly
    130   135   140

Gly Asp Ala Gly Cys Gly Arg Pro Pro Glu Pro Ala Gly Gly Gly Gln
145   150   155   160

Ala Ala Ala Ala Thr Glu Gly Gly Cys Leu Ser Leu Gly Leu Gly Cys
            165   170   175

Arg Gln Leu Gly Leu Leu Pro Gly Pro Ala Tyr Thr Ala Pro Pro Val
            180   185   190

Gly Val Thr Val Gly Tyr Ser Gln Ala Gly Phe Leu Pro Cys Arg Thr
        195   200   205

Leu Ser Leu Pro Pro Ala Cys Ser Trp Arg Leu Leu Pro Arg Gly Arg
    210   215   220

Leu Phe Cys Leu Leu Lys Trp Val Cys Cys Thr Leu Thr Gly Gln Gly
225   230   235   240

Gln Ser Leu Gly Ala Val Leu Trp Pro Arg Val Gly Thr Cys Leu Asp
            245   250   255

4831

Gln Asn Glu Arg Asp Arg Val Pro Asp Thr Phe Gly Gly Pro Asp Ser
          260   265   270

Gly Leu Asp Thr Val Val Asp Pro Glu Lys Arg Pro Ser Leu Gln
          275   280   285

<210> 5445
<211> 57
<212> PRT
<213> Homo sapiens

<400> 5445
Ser His Ala Cys Pro Leu Thr Phe Thr Arg Asn Ser Glu Lys Gln Ser
  1   5   10   15

Thr Tyr Phe Ala Thr Gln Trp Ser Ser Ser Leu Asn Thr Phe Ile Gln
              20   25   30

Arg Ser Thr Asn Tyr Asp Pro Pro Val Lys Ser Tyr Leu Ala Leu Val
          35   40   45

Phe Val Asn Lys Val Leu Leu Glu His
      50   55

<210> 5446
<211> 100
<212> PRT
<213> Homo sapiens

<400> 5446
Trp Cys Ser Arg Ala Val Pro Pro Pro Ser Leu Leu Pro Ala Ser Thr
  1   5   10   15

Ser Pro Pro Arg Ser Val Pro Pro Pro Ser Phe Ser Leu Ser Leu Lys
              20   25   30

Ser Val Ser Phe Gly Ser Pro Arg Ala Ser Leu Pro Arg Pro Ser Trp
              35   40   45

Met Arg Pro Pro Ser Pro Lys Pro Ala Cys Phe Ala Val Ser Pro Gly
      50   55   60

Ser Trp Lys Leu Ala Gly Ala Arg Gly Trp Arg Gly His Gly Gly Val
 65   70   75   80

Gly Glu Gly Ser Leu Pro Phe Leu Val Arg Ser Ile Ile Val Asn Gly
              85   90   95

4832

Cys Thr Leu Phe
            100

<210> 5447
<211> 118
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (6)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5447
Arg Ser Trp Gly Ser Xaa Trp Lys Gln Glu Asp Pro Ile Gln Gln Arg
 1   5   10   15

Pro Leu Arg Leu Val Leu His Phe Leu Arg Glu Leu Ser Val Gly Ser
            20   25   30

His His Pro Ala His Trp Leu Pro Pro Lys Pro Pro Pro Leu Thr Ser
            35   40   45

Ala Asn Leu Leu Phe Gly Asp Pro Leu Ser Asp Pro Leu Cys Leu Pro
        50   55   60

Ser Trp Ser Ser Ser Trp Arg Ile Ser Gly Gln Arg Gly Gly Gln Arg
 65   70   75   80

Ser Phe Pro Ile Pro Pro Gln Arg Tyr Phe Leu Leu Gly Pro His Thr
                85   90   95

Leu Thr Pro Ser Ser Glu Met Asn Thr Phe Leu Leu Leu Leu Leu Arg
            100   105   110

Gln Ser Glu Thr Pro Ser
            115

<210> 5448
<211> 55
<212> PRT
<213> Homo sapiens

<400> 5448
Leu Leu Val Ser Asp Leu Thr Leu Leu Ser Lys Tyr Ser Ile Ile Ala
 1   5   10   15

4833

```
Arg Phe Thr Glu Phe Arg Ser Leu Lys Val Tyr Ile Leu Phe Pro Tyr
            20                  25              30

Val Asp Lys Leu Val Ser Leu Leu Leu Glu Tyr His Lys Val Phe Val
            35              40              45

Lys Ile Thr Gln Val Ile Lys
        50              55
```

```
<210> 5449
<211> 98
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (19)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5449
His Ala Phe Phe Leu Lys Leu Phe Arg Val Val Glu Ile Ala Ala Cys
  1             5                  10              15

His Ser Xaa His Thr Ser Ala Ala Lys Thr Gln Gly Gly His Val Tyr
            20                  25              30

Met Trp Gly Gln Cys Arg Gly Gln Ser Val Ile Leu Pro His Leu Thr
            35              40              45

His Phe Ser Cys Thr Asp Asp Val Phe Ala Cys Phe Ala Thr Pro Ala
        50              55              60

Val Ser Trp Arg Leu Leu Ser Val Gly Lys Lys Val Gln Gly His Phe
  65              70              75              80

Thr Gln Gly Gly Met Val Leu Pro Thr Asp Gln Phe Ser Cys Val Phe
                85              90              95

Ala Gly
```

```
<210> 5450
<211> 186
<212> PRT
<213> Homo sapiens
```

4834

<220>
<221> SITE
<222> (3)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5450
Gly Gly Xaa Asp Gln Gly Gln Glu Pro Gly Pro Leu Glu Glu Gln Gln
  1   5   10   15

Arg Leu Ala His Leu Glu Asp Lys Leu Arg Leu Leu Ala Gln Ala Arg
               20   25   30

Asp Glu Ala Gln Gly Ala Cys Leu Gln Gln Lys Gln Val Val Ala Glu
               35   40   45

Ala Gln Thr Arg Val Ser Gln Leu Gly Leu Gln Val Glu Gly Leu Arg
          50   55   60

Arg Arg Leu Glu Glu Leu Gln Gln Glu Leu Ser Leu Lys Asp Gln Glu
 65   70   75   80

Arg Val Ala Glu Val Ser Arg Val Arg Val Glu Leu Gln Glu Gln Asn
               85   90   95

Gly Arg Leu Gln Ala Glu Leu Ala Ala Gln Glu Ala Leu Arg Glu Lys
              100   105   110

Ala Ala Ala Leu Glu Arg Gln Leu Lys Val Met Ala Ser Asp His Arg
    115   120   125

Glu Ala Leu Leu Asp Arg Glu Ser Glu Asn Ala Ser Leu Arg Glu Lys
    130   135   140

Leu Arg Leu Arg Glu Ala Glu Ile Ala Arg Ile Arg Asp Glu Glu Ala
145   150   155   160

Gln Arg Ala Ser Phe Leu Gln Asn Ala Val Leu Ala Tyr Val Gln Ala
              165   170   175

Ser Pro Val Arg Thr Leu Ser Pro Pro Lys
              180   185

<210> 5451
<211> 40
<212> PRT
<213> Homo sapiens

<400> 5451
Pro Met Ala Asn Pro Ile Leu Lys Leu Val Asn Ser Asp Gln Ser Tyr

4835

```
 1                5                   10                      15
Phe Thr Tyr Pro Thr Gln Ser Gly Pro Lys Gln Ile Ala Gly Ser Ala
            20                  25              30

Ser Lys Pro Thr Phe Leu Pro Lys
        35              40
```

<210> 5452
<211> 69
<212> PRT
<213> Homo sapiens

<400> 5452
```
Leu Ser Arg Lys Leu Leu Leu Leu Arg Phe Lys Asn Glu Asn Arg Cys
  1              5                   10                  15

Glu Phe Ser Lys Ile Leu Lys Asn Asn Ser Val Lys Asn Ser Gly Ala
            20                  25              30

Val Lys Glu Ser Trp Met Glu Leu Glu Val Thr Ile Leu Ser Asp Ile
        35              40                  45

Ser Gln Lys Gln Thr Asn Ile Ala Cys Ser Gln Leu Phe Ala Gly Ser
     50              55              60

Lys Ser Gln Asn Asn
  65
```

<210> 5453
<211> 129
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (115)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (117)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (122)

4836

<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (123)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (127)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5453
Leu Glu Arg Gly Trp Cys Glu Ser Cys Leu Thr Thr Ala Pro Ser Pro
 1   5   10   15

Pro Cys Ala Ala Glu Gly Thr Pro Ala Ala His Arg Phe Gln Glu Ala
                20   25   30

Leu Ser Asp Phe Trp Leu Ala Leu Glu Gln Leu Arg Gly His Ala Ala
            35   40   45

Ile Asp Tyr Thr Gln Leu Gly Leu Arg Phe Lys Leu Gln Pro Gly Arg
        50   55   60

Cys Tyr Thr Met Trp Arg Arg His Ser Ala Ser Trp Gly Ser Gly Gln
65   70   75   80

Arg Arg Gln Gln Pro Lys Gly Gly His Val Gln Val Ala Gly Gly Ser
                85   90   95

Leu Asn Gly Leu Asp Ser Ala Leu Asp Gln Val Gln Arg Arg Gly Ser
            100   105   110

Leu Pro Xaa Gly Xaa Ser Pro Gly Arg Xaa Xaa Pro Ala Pro Xaa Trp
        115   120   125

Thr

<210> 5454
<211> 84
<212> PRT
<213> Homo sapiens

<400> 5454
Trp Ile Pro Arg Ala Ala Gly Ile Arg His Glu Ser Gly Asp Lys Leu
 1   5   10   15

4837

Lys Leu Asp Gln Thr His Leu Glu Thr Val Ile Pro Ala Pro Gly Lys
              20   25   30

Arg Ile Leu Val Leu Asn Gly Gly Tyr Arg Gly Asn Glu Gly Thr Leu
              35   40   45

Glu Ser Ile Asn Glu Lys Thr Phe Ser Ala Thr Ile Val Ile Glu Thr
              50   55   60

Gly Pro Leu Lys Gly Arg Arg Val Glu Gly Ile Gln Tyr Glu Asp Ile
    65   70   75   80

Ser Lys Leu Ala

<210> 5455
<211> 58
<212> PRT
<213> Homo sapiens

<400> 5455
Ile Phe Leu Leu Phe Ser Thr Phe Pro Gln Ile His Val Ser Glu Val
    1   5   10   15

Leu Ser Phe Gly His His Tyr Leu Ser Thr Leu Arg Asn Met Pro Ile
              20   25   30

Asp Glu Val Asn Ile Leu Gly Ile Gln Arg Ile Tyr Gly Asn Val Asp
              35   40   45

Lys Asp Ile Tyr Gln Asp Lys Ala Leu Glu
    50   55

<210> 5456
<211> 46
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (23)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (26)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5456
Glu Thr Thr Lys Gln Thr Gln Lys Lys Glu His Asn Asn Arg Asp Lys
1   5   10   15

Ile Lys Phe Arg Gln Gln Xaa Thr Glu Xaa Ile Leu Lys Thr Arg Ile
            20   25   30

Cys Ser Leu Arg Ile Phe Phe Ile Ile Lys Met Ile Phe Gly
        35   40   45

<210> 5457
<211> 64
<212> PRT
<213> Homo sapiens

<400> 5457
Asn Pro Phe Ala Ser Gly Gln Phe Gln Thr Arg Ile Leu Ala Cys Pro
1   5   10   15

Ala Ser His Gly Met Pro Leu Pro Tyr Cys Gln Cys Asp Leu Ser Glu
            20   25   30

Thr Ala Tyr Leu Ile Leu Ser Phe Pro Gly Ala Ala Ser His Leu Pro
            35   40   45

Gln Asp Leu Asn Phe Lys Leu Tyr Ser Ser Pro His Ser Pro Gln Gln
    50   55   60

<210> 5458
<211> 73
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (26)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (55)
<223> Xaa equals any of the naturally occurring L-amino acids

4839

<400> 5458
Val Leu Val Ser Leu Pro Val Pro Thr Gln Ile Ala Ser Gln Asn Phe
1   5   10   15

Asp Pro Ala Thr Val Ser Val Ala Thr Xaa His Lys Gly Ala Glu Pro
            20   25   30

Ser Arg Gly Thr Ala Trp Gly Pro Val Ala Lys Arg Leu Gln Gln Glu
            35   40   45

Leu Met Thr Leu Met Met Xaa Gly Asp Lys Arg Ile Ser Ala Thr Leu
        50   55   60

Lys Ala Leu Ser Asn Gly His His Ser
65   70

<210> 5459
<211> 93
<212> PRT
<213> Homo sapiens

<400> 5459
Pro Lys Val Leu Gly Leu Gln Ala Glu Pro Pro Arg Pro Ala Leu Leu
1   5   10   15

Leu Leu Leu Arg Phe Glu Asn Arg Cys Leu Asn Ala Pro Asp Ser Ala
            20   25   30

Leu Leu Thr Gln Arg Phe Pro His Leu Ile Tyr Ser Val Pro Ala Gln
            35   40   45

Ser Pro Phe Ser Leu Met Pro Arg Ala Gly Phe Ser Leu Pro Ala Pro
    50   55   60

Arg Phe Trp Ser Pro Pro Ser Val Leu Gly Pro Ser Cys Pro Leu Ser
65   70   75   80

Gly Phe Arg Pro Ser Gln His Ser Leu Ala Ser Leu Pro
                85   90

<210> 5460
<211> 50
<212> PRT
<213> Homo sapiens

<400> 5460
Gly Arg Pro Phe Gly Asn Leu Cys Leu Asn Ser Asn Arg Arg Glu Asn

4840

```
        1                 5                 10                15

Val Gln Ala Met Gly Leu Leu Pro Ile Ser Leu Cys Phe Ala Ile Pro
                  20                25                30

Trp Asp Lys Gly Thr Thr Ser Gly Ser Gln Ser Pro Asn Gln Tyr His
                  35              40                45

Arg Val
      50
```

```
<210> 5461
<211> 67
<212> PRT
<213> Homo sapiens

<400> 5461
Glu Pro Ser Ser Val His Lys Lys Pro Ile Glu Ser Arg Ser His Phe
   1                 5                 10                15

Ile Arg Trp Gln Val Ser Trp Ala Ser Leu Leu Ala Ser Pro Lys Arg
                  20                25                30

Trp Cys Cys Gln Asp Val Leu Glu Val Ile Met Gly His Thr Glu Ala
              35              40                45

Leu Ser Leu His Arg Leu Lys Cys His Gln Asn Trp Pro Leu Pro Asn
          50              55              60

Ile Pro His
   65
```

```
<210> 5462
<211> 62
<212> PRT
<213> Homo sapiens

<400> 5462
Glu Arg Glu Ile Leu Met Ala Pro Met Ala Ala Arg Ile Thr Ser Leu
   1                 5                 10                15

Lys Phe Arg Ala Cys Val Asn Arg Phe Cys Phe Leu Val Ser Glu Arg
                  20                25                30

Phe Ser Tyr Ser Thr Val Leu Ile Cys Phe Ser Lys Pro Ser Asp Leu
              35              40                45
```

4841

Cys Ile Phe Asn Arg Pro Gln Asn Asn Val Lys Tyr Met Ala
    50   55   60

<210> 5463
<211> 60
<212> PRT
<213> Homo sapiens

<400> 5463
Lys Tyr Gln Ile Ile Leu Trp Asn Val Lys Ala Phe Leu Leu Lys Pro
 1   5   10   15

Ser Ile Cys Phe Ile Val Ile Ser Val Ala Asn Met Asp Phe Ile Phe
            20   25   30

Lys Met Met Phe Tyr Ile Ile Phe Pro Tyr Lys Leu Phe Glu Lys Gln
            35   40   45

Phe Asn Asn Ser Met Ile Val Val Ala Pro Leu Asn
    50   55   60

<210> 5464
<211> 44
<212> PRT
<213> Homo sapiens

<400> 5464
Trp Gln Ser Asn Phe Phe Cys Leu Phe Pro Arg Glu Ser Trp Glu Tyr
 1   5   10   15

Pro Glu Leu Gly Ala Leu Met Ile Leu Phe Gln Leu Trp Cys Leu Lys
            20   25   30

Lys Asn Tyr Lys Ser Ile Leu Asn Gly Leu Ser Ser
            35   40

<210> 5465
<211> 20
<212> PRT
<213> Homo sapiens

<400> 5465
Glu Cys Lys Leu Val Gln Pro Ser Trp Lys Thr Gly Trp Gln Phe Leu
 1   5   10   15

4842

```
Lys Asp Leu Cys
            20



<210> 5466
<211> 58
<212> PRT
<213> Homo sapiens

<400> 5466
Gln Lys Ile Glu Leu Ser Phe Arg Val Ser Lys Lys Val Leu Tyr Ser
 1               5                  10                  15

Cys Cys Thr Pro Gly Ser Trp Gln Gly Gly Asp Phe Cys Pro Arg Glu
            20                  25                  30

Cys Ser Phe Leu Cys Ile Ile Ala Lys Gln Phe Cys Ser Cys Ile Leu
            35                  40                  45

Lys His His Trp Met Asn Phe Phe Pro Leu
         50              55
```

```
<210> 5467
<211> 83
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (7)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (37)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (45)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (47)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
```

4843

<221> SITE
<222> (83)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5467
Leu Leu Ile Glu Thr Cys Xaa Val Glu Lys Leu Phe Leu Ser Leu Leu
 1   5   10   15

Ala Ile Gln Val Ser Ser Phe Met Lys Trp Leu Phe Met Ser Phe Ala
            20   25   30

His Phe Tyr Ile Xaa Leu Phe Phe Phe Pro Ala Xaa Leu Xaa Glu
            35   40   45

Leu Tyr Ile Leu Ser Ile Leu Ile Ile Tyr Arg Lys Leu Phe Gly Cys
        50   55   60

His Tyr Leu Leu Leu Val Asn Val Phe Cys Leu Trp Ile Ser Phe Ile
 65   70   75   80

Ile Tyr Xaa

<210> 5468
<211> 79
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (21)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5468
Gln Ala Leu Thr Leu Cys Lys Lys Gly Gly Arg Gly His Ser Trp Ala
 1   5   10   15

Gly Gly Val Gly Xaa Gln Asp Gly Cys Pro Ser Leu Pro Ile Phe Ser
            20   25   30

Trp Leu Trp Asp Gln Arg Leu Val Leu Gly Ile Trp Thr Trp Arg Pro
            35   40   45

Arg Ala Ile Gly Glu Gly Leu Lys Pro Val Leu Ser Ala Ala Cys Cys
        50   55   60

Glu Trp Pro Ser Arg Val Met Thr Glu Leu Phe Trp Gly Arg Arg
 65   70   75

4844

```
<210> 5469
<211> 245
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (118)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (170)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (171)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (172)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (173)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (177)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5469
Ala Arg Gly Ala Gly Ala Ala Gly Ser Arg Cys Val Ser Gly Glu Gly
  1               5                  10                  15

Ala Pro Arg Leu Gly Arg Arg Arg Arg Gln Arg Leu Glu Glu Arg Glu
             20                  25                  30

Arg Arg Phe Pro Cys Pro Gly Pro Arg Glu Gly Arg Pro Thr Ala Ala
             35                  40                  45

Met Glu Gln Leu Ser Asp Glu Glu Ile Asp His Gly Ala Glu Glu Asp
        50                  55                  60

Ser Asp Lys Glu Asp Gln Asp Leu Asp Lys Met Phe Gly Ala Trp Leu
```

4845

```
65                      70                      75                      80

Gly Glu Leu Asp Lys Leu Thr Gln Ser Leu Asp Ser Asp Lys Pro Met
                85                      90                      95

Glu Pro Val Lys Arg Ser Pro Leu Arg Gln Glu Thr Asn Met Ala Asn
                100                     105                     110

Phe Ser Tyr Arg Phe Xaa Ile Tyr Asn Leu Asn Glu Ala Leu Asn Gln
            115                     120                     125

Gly Glu Thr Val Asp Leu Asp Ala Leu Met Ala Asp Leu Cys Ser Ile
        130                     135                     140

Glu Gln Glu Leu Ser Ser Ile Gly Ser Gly Asn Ser Lys Arg Gln Ile
145                     150                     155                     160

Thr Glu Thr Lys Ala Thr Gln Lys Leu Xaa Xaa Xaa Xaa His Thr Leu
                165                     170                     175

Xaa His Gly Thr Leu Lys Gly Leu Ser Ser Ser Ser Asn Arg Ile Ala
            180                     185                     190

Lys Pro Ser His Ala Ser Tyr Ser Leu Asp Asp Val Thr Ala Gln Leu
            195                     200                     205

Glu Gln Ala Ser Leu Ser Met Asp Glu Ala Ala Gln Gln Ser Val Leu
        210                     215                     220

Glu Asp Thr Lys Pro Leu Val Thr Asn Gln His Arg Arg Thr Ala Val
225                     230                     235                     240

Ser Arg His Ser Glu
                245
```

```
Ala Phe Val Asp Cys Glu His Pro Ser Tyr Ile Gly Leu Tyr Arg Met
  1               5               10                  15

Ala Leu Ser Lys Asn Tyr Ser Cys Ile Thr Val Val Phe
            20                  25
```

4846

<210> 5471
<211> 81
<212> PRT
<213> Homo sapiens

<400> 5471
Ala Phe Pro Leu Pro Ser Pro Gly Leu Thr Pro His Pro Ile Pro Gln
 1   5   10   15

Lys Val Arg Arg Ala Gly Cys Val Asp Gly Ile Pro Glu Asn Glu Pro
                20   25   30

Val Glu Ser Ile Trp Pro Trp His Val Asn Ser Ser Leu Phe Pro Ala
                35   40   45

Val Ile Thr Thr Leu Phe Phe Pro Gln Gly Leu Asn Cys Thr Val Lys
        50   55   60

Asn Ser Lys Ser Ser Phe Ser Val Leu Leu Leu Val Ala Phe Leu Ile
65   70   75   80

Lys

<210> 5472
<211> 53
<212> PRT
<213> Homo sapiens

<400> 5472
Ser Cys Ser Phe Gly Val Cys Glu Gln Thr Gln Asp Ile Ile Ile Lys
 1   5   10   15

His His Pro Ser Ile Lys Gly Leu Phe Tyr Asn Met Cys Cys Glu Ile
                20   25   30

Asn Leu Ser Gly Lys Val Trp Cys Asn Glu Leu Phe His Ser Met Val
                35   40   45

Ile Asp Ala Val Lys
        50

<210> 5473
<211> 105
<212> PRT
<213> Homo sapiens

4847

<400> 5473
```
Tyr Ala Cys Arg Tyr Arg Ser Gly Ile Pro Gly Ser Thr His Ala Ser
 1               5                  10                  15

Val Phe Phe Phe Phe Phe Phe Phe Phe Phe Phe Phe Cys Phe Phe Phe
            20                  25                  30

Phe Phe Phe Val Val His Asn His Leu Phe Tyr Leu Lys Thr Cys Leu
            35                  40                  45

His Cys Ile Glu His Gln His Arg Cys Asp Gln Glu Thr His Ser Pro
        50                  55                  60

Val Pro Ala Ala Leu Gly Pro Val Tyr Asp Leu Gly Trp Thr Val Ile
65                  70                  75                  80

Phe His Ser Glu Gly Gly Lys Asp Arg Lys Glu Lys Met Ala Ile Ile
                85                  90                  95

Pro Thr Pro Val Gln Glu Ser Glu Gln
                100                 105
```

<210> 5474
<211> 122
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (25)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (34)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (50)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (51)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5474
```
Gly Phe Ile Ile His Cys Gln Met Leu Val Pro Ile Lys Gln Cys Cys
```

4848

```
   1               5        .          10                  15

 Leu Pro Thr Pro Thr Phe Cys Val Xaa Gly Lys Phe Trp Lys Ser Arg
             20              25              30

 Gly Xaa His Ala Lys Arg Leu Ser Thr Gly Leu Phe Leu Val Ser Ala
         35              40              45

 Leu Xaa Xaa Leu Cys Glu Glu Val Ala Ile Tyr Gly Phe Trp Pro Phe
     50              55              60

 Ser Val Asn Met His Glu Gln Pro Ile Ser His His Tyr Tyr Asp Asn
 65              70              75              80

 Val Leu Pro Phe Ser Gly Phe His Ala Met Pro Glu Glu Phe Leu Gln
             85              90              95

 Leu Trp Tyr Leu His Lys Ile Gly Ala Leu Arg Met Gln Leu Asp Pro
             100             105             110

 Cys Glu Asp Thr Ser Leu Gln Pro Thr Ser
             115             120
```

```
<210> 5475
<211> 237
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (109)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (237)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5475
 Tyr Gln Ser Ile Ala Leu Tyr Phe Glu Gly Glu Lys Arg Tyr Leu Gln
  1               5               10              15

 Ala Gly Lys Phe Phe Leu Leu Cys Gly Gln Tyr Ser Arg Ala Leu Lys
             20              25              30

 His Phe Leu Lys Cys Pro Ser Ser Glu Asp Asn Val Ala Ile Glu Met
         35              40              45

 Ala Ile Glu Thr Val Gly Gln Ala Lys Asp Glu Leu Leu Thr Asn Gln
```

4849

```
           50                      55                      60

Leu Ile Asp His Leu Leu Gly Glu Asn Asp Gly Met Pro Lys Asp Ala
 65                  70                  75                  80

Lys Tyr Leu Phe Arg Leu Tyr Met Ala Leu Lys Gln Tyr Arg Glu Ala
                 85                  90                  95

Ala Gln Thr Ala Ile Ile Ile Ala Arg Glu Glu Gln Xaa Ala Gly Asn
                100                 105                 110

Tyr Arg Asn Ala His Asp Val Leu Phe Ser Met Tyr Ala Glu Leu Lys
                115                 120                 125

Ser Gln Lys Ile Lys Ile Pro Ser Glu Met Ala Thr Asn Leu Met Ile
                130                 135                 140

Leu His Ser Tyr Ile Leu Val Lys Ile His Val Lys Asn Gly Asp His
145                 150                 155                 160

Met Lys Gly Ala Arg Met Leu Ile Arg Val Ala Asn Asn Ile Ser Lys
                165                 170                 175

Phe Pro Ser His Ile Val Pro Ile Leu Thr Ser Thr Val Ile Glu Cys
                180                 185                 190

His Arg Ala Gly Leu Lys Asn Ser Ala Phe Ser Phe Ala Ala Met Leu
                195                 200                 205

Met Arg Pro Glu Tyr Arg Ser Lys Ile Asp Ala Lys Tyr Lys Lys Lys
210                 215                 220

Ile Glu Gly Met Val Gln Glu Thr Arg Tyr Ile Leu Xaa
225                 230                 235
```

<210> 5476
<211> 142
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (19)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5476
```
Gly Gly Ala Gly Ala Arg Gly Gly Gly Ala Leu Trp Val Thr Glu Gly
  1               5                  10                  15
```

4850

```
Val Lys Xaa Pro Gly Pro Val Ser Gly Gln Cys Arg Lys Ser Gln Pro
            20              25              30

His Ala Cys Gly Glu Ile Pro Cys Arg Ala Pro Pro Thr Met Asp Thr
        35              40              45

Ser Gly Pro Leu Arg Ser Ser Lys Ala Val Ser Ser Phe Pro Leu Gln
    50              55              60

Gln Arg Gly Val Pro Ser Ser Val Lys Gln Pro Phe Leu Phe Leu Glu
65              70              75              80

Ser Tyr Lys Trp Arg Pro Lys Ser Val Pro Met Leu Arg Gln Gly Pro
            85              90              95

Gly Cys Ser Phe Leu Ser Gly Asn Arg Leu Glu Leu Phe Leu Trp Asp
            100             105             110

Met Pro Pro Arg Pro Ala Leu Lys Gly Cys Ser Ser Leu Thr Thr Trp
    115             120             125

Asn Gln Thr Pro Pro Ser Phe Val Tyr Lys Gly Asn Lys Glu
    130             135             140
```

<210> 5477
<211> 41
<212> PRT
<213> Homo sapiens

<400> 5477
```
Gly Arg Lys Leu Pro Glu Glu Glu Gly Gly Lys Glu Ile Lys Asn Thr
    1               5               10              15

Leu Lys Val Cys Gln Lys Lys Glu Leu Tyr Phe Leu Lys His Ser Arg
            20              25              30

Lys Met Met Ser Phe Gln Leu Leu Ile
            35              40
```

<210> 5478
<211> 64
<212> PRT
<213> Homo sapiens

<400> 5478
```
Lys Ser Ile Val Val Leu Val Leu Leu Ser Trp Ile Ile Val Gln Lys
    1               5               10              15
```

4851

Glu Val Gln Pro Pro Asp Asn His Ile Phe Thr Val Met Asn Gly Lys
             20   25   30

Thr Lys Cys Arg Ala Gln Leu Thr Gln Arg Lys Lys Gly Ser Lys Asp
         35   40   45

Lys Leu Trp His Asn Leu Ala Ala Lys Phe Leu Pro Ser Thr Asp Phe
     50   55   60

<210> 5479
<211> 48
<212> PRT
<213> Homo sapiens

<400> 5479
Cys Ile Ile Leu Arg Gly Phe Phe Arg Ala Val Leu Thr Glu Leu Ser
 1   5   10   15

Ile Asn Leu His Ser Ser Gly Arg Leu Leu Lys Leu Ala Gly His Asn
             20   25   30

Glu Ile Gly Lys Ser Arg Val Leu Lys Ser Ile Ala Trp Pro Ser Ala
         35   40   45

<210> 5480
<211> 68
<212> PRT
<213> Homo sapiens

<400> 5480
Lys Leu Leu Cys Pro His Leu Arg Glu Glu Gly Ser Ser Asn Asn Thr
 1   5   10   15

Thr Met Cys Lys Ala Gly Ser Glu Ile Leu Leu Ser Pro Leu Pro Ser
             20   25   30

Cys Asn Pro Ser Leu Pro His Leu Ser Cys Met Cys Ile Thr Met Leu
         35   40   45

Phe Cys Phe Leu Met Lys Met Arg Leu Cys Ile Leu Phe Asp Asn Leu

4852

```
         50                    55                    60

Phe Gln Ile Lys
65
```

```
<210> 5481
<211> 101
<212> PRT
<213> Homo sapiens

<400> 5481
Pro Leu Ser Thr Pro His Pro Leu Arg Arg Gly Pro Arg Ser Tyr Pro
 1               5                    10                   15

Thr Val His Leu Pro Arg Gly Cys Ser Glu Leu Ala Met Ala Ala Thr
             20                   25                   30

Ala Ala Thr Ala Ala Asp Pro Arg Ser Gly Ser Leu Arg Arg Gly Val
         35                   40                   45

Ala Ala Leu Pro Arg Pro Pro Arg Gln Pro Glu Gln Leu Gln Ser Thr
     50                   55                   60

Gly Leu Gly Ser Glu Thr Phe Lys Val Lys Gln Ala Glu Trp Gly Asp
65                   70                   75                   80

Arg Thr Ile Ser Pro Pro Pro Gly Ala Pro Gly Leu Ser Leu Gly Gly
                 85                   90                   95

Pro Pro Leu Ala Pro
             100
```

```
<210> 5482
<211> 87
<212> PRT
<213> Homo sapiens

<400> 5482
Arg Ile His Glu Lys Tyr Glu Ile Trp Phe His Pro Val Arg His Phe
 1               5                    10                   15

Asn Arg Glu Asp Gln Asn Val Thr Trp Gln Leu Gly Asn Asn Leu Thr
             20                   25                   30

Ser Leu Ala Val Gly Leu Asn Phe Leu Ile Ile Asp Pro Gly Ile Phe
         35                   40                   45
```

4853

```
Gln Pro Glu Thr Gln Leu Ser Gly Arg Gln Thr Asn Cys Thr Thr Pro
    50                  55                  60

Thr Ile Ser Trp Thr Leu Lys Phe Cys Leu Leu Gln Ser Ile Val Ser
65                  70                  75                  80

Phe Lys Ala Pro Val Leu Ala
                85
```

```
<210> 5483
<211> 59
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (5)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5483
Thr Pro Ile Met Xaa Asp Glu Phe Val Met Arg Asp Asn Leu Glu Val
 1               5                  10                  15

Val Phe Thr His Tyr Ala Thr Ile Lys Gly Ser Thr Val Glu Arg Ile
                20                  25                  30

Leu Thr His Ser Val Thr Asn Gly Thr His Arg Gln His Glu Phe Ala
            35                  40                  45

Pro Tyr Met Thr Glu Val Ile Gln Gly Phe Leu
    50                  55
```

```
<210> 5484
<211> 240
<212> PRT
<213> Homo sapiens

<400> 5484
Val Thr Thr Lys Phe Val Arg Thr Ser Thr Asn Lys Val Lys Cys Pro
 1               5                  10                  15

Val Phe Val Val Arg His Ser Met Glu Asn Leu Phe Glu Lys Asn Lys
                20                  25                  30

Ile Arg Ala Ser Ile Ser Tyr Lys Trp Thr Pro Glu Gly Arg Arg Leu
            35                  40                  45
```

4854

```
Val Thr Gly Ala Ser Ser Gly Glu Phe Thr Leu Trp Asn Gly Leu Thr
    50              55              60

Phe Asn Phe Glu Thr Ile Leu Gln Ala His Asp Ser Pro Val Arg Ala
65              70              75              80

Met Thr Trp Ser His Asn Asp Met Trp Met Leu Thr Ala Asp His Gly
            85              90              95

Gly Tyr Val Lys Tyr Trp Gln Ser Asn Met Asn Asn Val Lys Met Phe
        100             105             110

Gln Ala His Lys Glu Ala Ile Arg Glu Ala Arg Phe Ile His Asn Ile
        115             120             125

Pro Phe Ser Val Val Pro Ile Val Met Val Lys Leu Phe Ser Lys Cys
    130             135             140

Ile Leu Gly Ala Glu Met His Gly Leu Cys Gln Phe Leu Gly Asn Phe
145             150             155             160

Leu His Pro Ile Asn Thr Ile Phe Phe Phe Val Phe Thr His Ser Pro
            165             170             175

Phe Cys Trp His Leu Ser Glu Val Val Leu Ser Arg Tyr Gln Pro Leu
        180             185             190

Gln Tyr Val Arg Asp Val Leu Ser Ala Ala Phe Cys Thr Gly Phe Leu
        195             200             205

Phe Ser Phe Met Ile Asn Asn Val Tyr Thr Leu Phe Leu Phe Ile Ile
    210             215             220

Tyr Cys Val Arg Gln Glu Tyr Phe Ile Pro Asn Lys Glu Phe Ser Leu
225             230             235             240
```

<210> 5485
<211> 47
<212> PRT
<213> Homo sapiens

<400> 5485
```
Asn Glu Ala Phe Ile Tyr Val Phe Arg Cys His Cys Ser Leu Ser Glu
    1           5               10              15

Leu Ala Val His Ile Ser Leu Pro Leu Val Leu Ser Thr Asp Phe Phe
```

4855

```
                    20                  25                  30

Leu Lys Lys Arg Gly Thr Val Tyr His Ser Ser Thr Val Leu Leu
          35                  40                  45
```

<210> 5486
<211> 72
<212> PRT
<213> Homo sapiens

<400> 5486
```
Tyr Glu Ala Lys Thr Lys Ser Trp Lys Ser Glu Gln Val Gln Trp Phe
 1               5                  10                  15

Gly Arg Gly Asn Glu Glu Gln Arg Arg Cys Gln Pro Leu Leu Gln Thr
              20                  25                  30

Leu Trp Tyr His Trp Phe Gly Arg Lys Asn Asn His His Leu Arg Gly
          35                  40                  45

Pro Val Gly Lys Pro Cys Pro His Gly Lys Ala Ile Phe Phe Arg Leu
      50                  55                  60

His Phe Ser Trp Tyr Tyr Val Tyr
 65                  70
```

<210> 5487
<211> 75
<212> PRT
<213> Homo sapiens

<400> 5487
```
Leu Thr Cys Tyr Val Thr Val Ile Tyr Leu Ser Ile Ser Asn Pro Lys
 1               5                  10                  15

Ala Cys Gln Lys Ala Phe Phe Arg Glu Asn His Phe Thr Phe Val Val
              20                  25                  30

Lys Leu Leu Ile Ala Thr Leu Lys Asn Ile His Val Cys Ile His Arg
          35                  40                  45

Asn Ile Phe Ser Gln Tyr Leu Tyr Asp Ser Leu Thr Val Ile Val Leu
      50                  55                  60

Ser Glu Leu Leu Cys Ala Ser Asp Lys Asn Lys
 65                  70                  75
```

4856

```
<210> 5488
<211> 110
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (68)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (102)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (108)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5488
Gly Pro Arg Arg Thr Leu Ala Ala Leu Pro Leu Ser Arg Val Ser Ala
  1               5                  10                  15

Gly Ser Gly Ser Ala Ser Pro Gly Gln Leu Arg Glu Ser Leu Ala Arg
             20                  25                  30

Ile Pro Ala Ser Thr Leu Phe Leu Ala Ala Lys Val Thr Val Pro Phe
             35                  40                  45

Ala Pro Ala Leu Ser Asp Pro Pro Arg Ile Pro Arg His Arg Glu Thr
        50                  55                  60

Arg Lys Gly Xaa Gly Ser Gly Gly Gly Pro Gly Arg Ile Ala Leu Gln
 65                  70                  75                  80

Ala Ala Leu Arg Gly Pro Ala Pro Ala Thr Ala Leu Thr Ser Glu Arg
                 85                  90                  95

Arg Asn Trp Gly Glu Xaa Phe Lys Ser Leu Arg Xaa Arg Cys
                100                 105                 110


<210> 5489
<211> 122
<212> PRT
<213> Homo sapiens
```

4857

```
<220>
<221> SITE
<222> (41)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (47)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (74)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5489
Ser Gly Arg Gly Ser Pro Gln Trp Thr Arg Leu Pro His Pro Ala Glu
 1               5                  10                  15

Val Gly Gly Gly His Glu Glu Met Gly Cys Arg Leu Leu Ser Glu Leu
             20                  25                  30

Pro Ser Thr Asn Gly Val Gly Val Xaa Asp Leu Pro Arg His Xaa Phe
         35                  40                  45

Phe Thr Phe Gly Lys Met Glu Gly Asp Gly Gly Gly Ile Pro Cys Ser
     50                  55                  60

Leu Cys Cys Ala Asp Thr Leu Glu Lys Xaa Leu Pro Ser Val Glu Gln
 65                  70                  75                  80

Asn Pro Leu Trp Arg Asn Ala Ala Val Leu Asp Leu Glu Ala Glu Gly
                 85                  90                  95

Val Ser Ile Leu Gly Ile Cys Leu Pro Leu Pro Ile Trp Met Pro His
             100                 105                 110

Leu Ala Val Ser Leu Met Val Ile Leu Phe
         115                 120


<210> 5490
<211> 97
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (6)
<223> Xaa equals any of the naturally occurring L-amino acids
```

4858

```
<400> 5490
Arg Leu Phe Ser Leu Xaa Gly Glu Cys His Lys Leu Leu Phe Cys Ile
1               5                  10                  15

Ser Thr Ala Cys Gln Ala Leu Ser Ala Ser Ser Asn Leu Ala Leu Thr
                20              25              30

Ala Thr Gly Ser Arg Cys Pro Ile Phe Gln Ser Lys Asp Arg Gly Val
        35              40              45

Lys Phe Lys Tyr Arg Phe Ser Asp Ile Asn Leu Cys Asp Asp Leu Ile
    50              55              60

Glu Ala Gly Phe Ser Ser Ile Thr Val Leu Val Pro Ser Leu Leu Tyr
65              70              75              80

Gly Asn Glu Asn Lys Glu Thr Tyr Phe Leu Ala Cys Leu Lys Lys Lys
                85              90              95

Lys
```

```
<210> 5491
<211> 294
<212> PRT
<213> Homo sapiens
```

```
<400> 5491
Thr Tyr Thr Ile His Ala Asp Gly Thr Gly Ser Asn Met Asn Ile Asn
1               5                  10                  15

Asp Gly Gly Arg Arg Arg Phe Glu Asp Asn Glu His Thr Leu Arg Ile
                20              25              30

Tyr Pro Gly Ala Ile Ser Glu Gly Thr Ile Tyr Cys Pro Ile Pro Ala
        35              40              45

Arg Lys Asn Ser Thr Ala Ala Glu Val Ile Glu Ser Leu Ile Asn Lys
    50              55              60

Leu His Leu Asp Lys Thr Lys Cys Tyr Val Leu Ala Glu Val Lys Glu
65              70              75              80

Phe Gly Gly Glu Glu Trp Ile Leu Asn Pro Thr Asp Cys Pro Val Gln
                85              90              95

Arg Met Met Leu Trp Pro Arg Met Ala Leu Glu Asn Arg Leu Ser Gly
            100             105             110
```

4859

```
Glu Asp Tyr Arg Phe Leu Leu Arg Glu Lys Asn Leu Asp Gly Ser Ile
        115                 120                 125

His Tyr Gly Ser Leu Gln Ser Trp Leu Arg Val Thr Glu Glu Arg Arg
        130                 135                 140

Arg Met Met Glu Arg Gly Phe Leu Pro Gln Pro Gln Gln Lys Asp Phe
145                 150                 155              ·    160

Asp Asp Leu Cys Ser Leu Pro Asp Leu Asn Glu Lys Thr Leu Leu Glu
                165                 170                 175

Asn Leu Arg Asn Arg Phe Lys His Glu Lys Ile Tyr Thr Tyr Val Gly
                180                 185                 190

Ser Ile Leu Ile Val Ile Asn Pro Phe Lys Phe Leu Pro Ile Tyr Asn
        195                 200                 205

Pro Lys Tyr Val Lys Met Tyr Asp Asn His Gln Leu Gly Lys Leu Glu
        210                 215                 220

Pro His Ile Tyr Ala Val Ala Asp Val Ala Tyr His Ala Met Leu Gln
225                 230                 235                 240

Arg Lys Lys Asn Gln Cys Ile Val Ile Ser Gly Glu Ser Gly Ser Gly
                245                 250                 255

Lys Thr Gln Ser Thr Asn Phe Leu Ile His His Leu Thr Ala Leu Ser
                260   ·             265                 270

Gln Lys Gly Phe Ala Ser Gly Val Glu Gln Ile Ile Leu Gly Ala Gly
        275                 280                 285

Pro Val Leu Glu Ala Val
        290
```

```
<210> 5492
<211> 85
<212> PRT
<213> Homo sapiens

<400> 5492
Pro Tyr Leu Arg Arg Arg Asp Thr Gln Asp Lys Leu Gln Val Val Ser
  1               5                 10                 15

Arg Phe Thr Phe Tyr Phe Glu Asp Pro Leu Leu Pro Gln Val Pro Asp
                20                 25                 30
```

4860

```
Leu Glu Asn Glu Pro Pro Leu Ser Gly Leu Ala Ser Pro Gln Pro Arg
        35              40              45

His Arg Leu Ala Gln Gly Ser Ser Ser Trp Leu Ser Trp Asn Leu His
    50              55              60

Phe Leu Thr Thr Arg Lys Arg Ser Pro Glu Leu Thr Lys Asn Asn Ile
65              70              75              80

Leu Leu Thr Trp Glu
                85
```

```
<210> 5493
<211> 274
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (51)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (127)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (130)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (135)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (188)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (231)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
```

4861

<222> (245)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (271)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5493
His Tyr Arg Glu Ser Trp Tyr Ala Cys Arg Tyr Arg Ser Gly Ile Pro
 1   5   10   15

Gly Ser Thr His Ala Ser Gly Pro Thr Ser Pro Pro Ala Arg Met Ala
            20   25   30

Pro Pro Gly Pro Ala Ser Ala Leu Ser Thr Ser Ala Glu Pro Leu Ser
        35   40   45

Arg Ser Xaa Phe Arg Lys Phe Leu Leu Met Leu Cys Ser Leu Leu Thr
    50   55   60

Ser Leu Tyr Val Phe Tyr Cys Leu Ala Glu Arg Cys Gln Thr Leu Ser
65   70   75   80

Gly Pro Val Val Gly Leu Ser Gly Gly Gly Glu Glu Ala Gly Ala Pro
                85   90   95

Gly Gly Gly Val Leu Ala Gly Pro Arg Glu Leu Ala Val Trp Pro Ala
            100   105   110   ,

Ala Ala Gln Arg Lys Arg Leu Leu Gln Leu Pro Gln Trp Arg Xaa Arg
            115   120   125

Arg Xaa Pro Ala Pro Arg Xaa Asp Gly Glu Glu Ala Ala Trp Glu Glu
    130   135   140

Glu Ser Pro Gly Leu Ser Gly Val Arg Ala Ala Pro Gly Pro Glu Ala
145   150   155   160

Pro Trp Pro Arg Pro Arg Arg Gly Pro Trp Arg Cys Ser Trp Thr Lys
                165   170   175

Ala Ala Ser Ser Cys Arg Ser Ile Ile Ile Gly Xaa Lys Lys Gly Gly
            180   185   190

Thr Arg Ala Leu Leu Glu Phe Leu Arg Val His Pro Asp Val Arg Ala
            195   200   205

Val Gly Ala Glu Pro His Phe Phe Asp Arg Ser Tyr Asp Lys Gly Leu
    210   215   220

4862

```
Ala Trp Tyr Arg Asp Leu Xaa Pro Arg Thr Leu Glu Gly Gln Ile Thr
225                 230             235                 240

Met Glu Lys Lys Xaa Ser Tyr Ser Ser Ser Gly Lys Pro Pro Arg Ala
                245             250                 255

Ser Trp Ala Cys Ser Lys Asp Asn Lys Leu Ile Arg Trp Leu Xaa Gly
                260             265                 270

Asn Arg
```

```
<210> 5494
<211> 66
<212> PRT
<213> Homo sapiens

<400> 5494
Gly Val Gly His Ser Glu Leu Thr Ser Met Phe Asn Thr Ile Thr Arg
 1           5               10               15

Asp Thr Glu Thr Ala Asn Gln Asp Lys Lys Leu Thr Thr Ser Arg Cys
            20               25               30

Arg Gln Leu Phe Pro Arg Cys Gln Asn Lys Thr Ser Tyr His Asp Glu
        35               40               45

Ala Pro Thr Pro Leu Asn Leu Pro Ser Ser Cys Leu Pro Leu Ser Leu
        50               55               60

Ala Gly
 65
```

```
<210> 5495
<211> 117
<212> PRT
<213> Homo sapiens

<400> 5495
Leu Asp Arg Ile Phe Ser Gly Gly Ser Leu Val Asp Phe Glu Gly Lys
 1           5               10               15

Thr Phe Trp Val Tyr His Val Leu Ile Leu Glu Thr Gly Ser Asp Glu
            20               25               30

Ser Ser Pro Val Val Pro Leu Ser Asn Ser Ile Lys Val Gly Ile Ser
        35               40               45
```

4863

Lys Glu His Leu Ile Gln Gly Ala Gly Ala Asp Phe Ile Asp Ser Arg
    50   55   60

Glu Thr Cys Phe Ser Ala Tyr Ser Ser Leu Pro Ser Gly Ala Ser Leu
    65   70   75   80

Leu Thr Ile Thr Ala Ser Leu Arg Cys Arg Trp Val Phe Leu Lys Gln
                85   90   95

Glu Thr Val Ser Pro Leu Leu Pro Gln Leu Leu Gly Val Gly Ile Ser
            100   105   110

Asp Thr Gly Asp Gly
        115

<210> 5496
<211> 171
<212> PRT
<213> Homo sapiens

<400> 5496
Ile Thr Met Asp Trp Gln Ser Ile Lys Ile Gln Glu Leu Met Ser Asp
  1   5   10   15

Asp Gln Arg Glu Ala Gly Arg Ile Pro Arg Thr Ile Glu Cys Glu Leu
            20   25   30

Val His Asp Leu Val Asp Ser Cys Val Pro Gly Asp Thr Val Thr Ile
            35   40   45

Thr Gly Ile Val Lys Val Ser Asn Ala Glu Glu Gly Ser Arg Asn Lys
    50   55   60

Asn Asp Lys Cys Met Phe Leu Leu Tyr Ile Glu Ala Asn Ser Ile Ser
  65   70   75   80

Asn Ser Lys Gly Gln Lys Thr Lys Ser Ser Glu Asp Gly Cys Lys His
                85   90   95

Gly Met Leu Met Glu Phe Ser Leu Lys Asp Leu Tyr Ala Ile Gln Glu
            100   105   110

Ile Gln Ala Glu Glu Asn Leu Phe Lys Leu Ile Val Asn Ser Leu Cys
            115   120   125

Pro Val Ile Phe Gly His Glu Leu Val Lys Ala Gly Leu Ala Leu Ala
        130   135   140

4864

Leu Phe Gly Gly Ser Gln Lys Tyr Ala Asp Asp Lys Asn Arg Ile Pro
145   150   155   160

Ile Arg Gly Asp Pro His Ile Leu Val Gly Phe
            165   170

<210> 5497
<211> 24
<212> PRT
<213> Homo sapiens

<400> 5497
Ser Val Lys Cys Arg Leu Ser Ser Phe Ile Met Asn Val Ile Val Arg
 1   5   10   15

Asn Thr Leu Thr Phe Ser Asn Phe
            20

<210> 5498
<211> 74
<212> PRT
<213> Homo sapiens

<400> 5498
Gly Phe Ser Gln Arg Arg Val Cys Ser Gly Arg Cys Cys Gly Gln Gly
 1   5   10   15

Ser Arg Gln Arg Pro Leu Ser Ser Arg Leu Ala Pro Ala Leu Arg Gly
                20   25   30

His Gly Gly Ala Glu Ala Thr Arg Ala Gly Pro Glu Pro Gly Gly Pro
        35   40   45

Trp Leu Arg Phe Ser Cys Thr Glu Lys Leu Asn Pro Ala Arg Ser Asp
    50   55   60

Val His Phe Met Val Pro Thr Pro Leu Gly
 65   70

<210> 5499
<211> 153
<212> PRT
<213> Homo sapiens

<220>

```
<221> SITE
<222> (123)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (132)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (134)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (141)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5499
Thr Cys Tyr Ala Thr Pro Cys Leu Val Trp Met Gly Arg Trp Pro Pro
  1           5               10              15

Ala Val Thr Leu Thr Cys Arg Pro Thr Ala Thr Val Pro Trp Ser Pro
            20              25              30

Gly Thr Thr Ser Ala Glu Thr Thr Ala Leu Ala Arg Ser Leu Cys Ser
        35              40              45

Ala Gly Thr Gln Pro Ala Pro Ser Thr Thr Ser Leu Pro Ser Trp Arg
    50              55              60

Ser Ala Ala Pro Leu Ala Trp Pro Leu Gln Leu Ser Gly Gln Trp Trp
65              70              75              80

Ser Ala Gly Ala Cys Phe Leu Asp Leu Pro Ser Leu Ala Leu Cys Trp
                85              90              95

Pro Gly Asp Ser Gly Asp Ala Ser Gly Gln Lys Pro Gly Ala Glu Gln
            100             105             110

Thr Leu Gly Cys Ser Gly Trp Ala Gln Ala Xaa Phe Arg Leu Ala Ala
        115             120             125

Thr Val Arg Xaa Pro Xaa Arg Pro Gln Ala Pro Ser Xaa Arg Ala Phe
    130             135             140

Leu Pro Leu His Phe Pro Thr Ile Glu
145             150
```

4866

```
<210> 5500
<211> 142
<212> PRT
<213> Homo sapiens

<400> 5500
Trp Thr Trp Ser Thr Pro Ala Ser Ala Arg Ser Ser Gly Thr Thr Thr
 1               5                  10                  15

Trp Pro Pro Ala Pro Ala Ala Ala Leu His Leu Arg Leu Arg Gly Val
            20                  25                  30

Gln Arg Arg Arg Ile Leu Thr Met Glu Pro Val Leu Gly Gly Thr Pro
        35                  40                  45

Tyr Leu Asp Lys Phe Val Val Ser Ser Ser Arg Gln Gly Gln Gly Ser
    50                  55                  60

Gly Gln Met Leu Trp Glu Cys Leu Arg Arg Asp Leu Gln Thr Leu Phe
65                  70                  75                  80

Trp Arg Ser Arg Val Thr Asn Pro Ile Asn Pro Trp Tyr Phe Lys His
                85                  90                  95

Ser Asp Gly Ser Phe Ser Asn Lys Gln Trp Ile Phe Phe Trp Phe Gly
            100                 105                 110

Leu Ala Asp Ile Arg Asp Ser Tyr Glu Leu Val Asn His Ala Lys Gly
            115                 120                 125

Leu Pro Asp Ser Phe His Lys Pro Ala Ser Asp Pro Gly Ser
    130                 135                 140


<210> 5501
<211> 100
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (23)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (29)
<223> Xaa equals any of the naturally occurring L-amino acids
```

4867

<400> 5501
```
Gln Arg Glu Asn Arg Pro Cys Leu Lys Glu Arg Phe Leu Val Tyr Ala
 1               5                  10                  15

Ser Gly Leu Trp Ala Gly Xaa Ala Thr Ile Pro Tyr Xaa Arg Gln Ser
                20                  25                  30

Ser Ala Pro Ala Ala Lys Leu Ala Cys Phe Thr Gly Lys Leu Leu Glu
            35                  40              45

Glu Trp Leu Leu Met Arg Phe Gln Asn Glu Val Leu Ala Asn Thr Ala
        50                  55                  60

His Gly His Pro Gly Phe Ser Gln Trp Leu Pro Phe Leu Leu Ala Ser
65                  70                  75                  80

Leu Asn Arg Gly Glu Ser Leu Thr Ser Leu Leu Leu Ser Lys Pro Phe
                85                  90                  95

Thr Leu Asn Gly
            100
```

<210> 5502
<211> 165
<212> PRT
<213> Homo sapiens

<400> 5502
```
Lys Trp Asp Glu Pro Trp Tyr Asn Gln Lys Thr Glu His Gln Arg Asn
 1               5                  10                  15

Ser Ser Lys Ile Leu Arg Phe Ile Ser Asp Phe Leu Ala Phe Leu Val
                20                  25                  30

Leu Tyr Asn Phe Ile Ile Pro Ile Ser Leu Tyr Val Thr Val Glu Met
            35                  40                  45

Gln Lys Phe Leu Gly Ser Phe Phe Ile Gly Trp Asp Leu Asp Leu Tyr
        50                  55                  60

His Glu Glu Ser Asp Gln Lys Ala Gln Val Asn Thr Ser Asp Leu Asn
65                  70                  75                  80

Glu Glu Leu Gly Gln Val Glu Tyr Val Phe Thr Asp Lys Thr Gly Thr
                85                  90                  95

Leu Thr Glu Asn Glu Met Gln Phe Arg Glu Cys Ser Ile Asn Gly Met
                100                 105                 110
```

4868

```
Lys Tyr Gln Glu Ile Asn Gly Arg Leu Val Pro Glu Asp Gln His Gln
        115             120             125
```

```
Thr Leu Gln Lys Glu Thr Tyr Leu Ile Leu Val Val Tyr Pro Ile Leu
    130             135             140
```

```
Thr Thr Tyr Pro Ile Leu Gln Pro Val Pro Leu Ser Glu Pro Val Leu
145             150             155             160
```

```
Lys Met Lys Leu Asn
            165
```

<210> 5503
<211> 54
<212> PRT
<213> Homo sapiens

<400> 5503
```
Arg Leu Pro Ser Glu Val Ser Asp His Ser Leu Leu Leu Lys Gln Leu
 1           5               10              15
```

```
Leu Leu Phe Leu Tyr Ser Ile Glu His Pro Gly Ile Asp Ile Ile Leu
        20              25              30
```

```
Ser Ile Ser Ile Ser Pro Leu Leu Val Tyr Leu Ile Ile Asn Pro Val
        35          40              45
```

```
Ser Arg Ala Val Phe Ile
    50
```

<210> 5504
<211> 220
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (57)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (175)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE

4869

<222> (178)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5504
His Glu Gly Lys Cys Phe Cys Arg Lys Ser Thr Leu Thr Thr His Leu
 1   5   10   15

Arg Thr His Thr Gly Glu Lys Pro Tyr Glu Cys Asn Glu Cys Gly Lys
             20   25   30

Phe Phe Ser Arg Leu Ser Tyr Leu Thr Val His Tyr Arg Thr His Ser
         35   40   45

Gly Glu Lys Pro Tyr Glu Cys Asn Xaa Cys Gly Lys Thr Phe Tyr Leu
     50   55   60

Asn Ser Ala Leu Met Arg His Gln Arg Val His Thr Gly Glu Lys Pro
 65   70   75   80

Tyr Glu Cys Asn Glu Cys Gly Lys Leu Phe Ser Gln Leu Ser Tyr Leu
             85   90   95

Thr Ile His His Arg Thr His Ser Gly Val Lys Pro Tyr Glu Cys Ser
             100   105   110

Glu Cys Gly Lys Thr Phe Tyr Gln Asn Ser Ala Leu Cys Arg His Arg
         115   120   125

Arg Ile His Lys Gly Glu Lys Pro Tyr Glu Cys Tyr Ile Cys Gly Lys
     130   135   140

Phe Phe Ser Gln Met Ser Tyr Leu Thr Ile His His Arg Ile His Ser
145   150   155   160

Gly Glu Lys Pro Tyr Glu Cys Ser Glu Cys Gly Lys Thr Phe Xaa Gln
             165   170   175

Asn Xaa Ala Leu Asn Arg His Gln Arg Thr His Thr Gly Glu Lys Ala
         180   185   190

Tyr Glu Cys Tyr Glu Cys Gly Lys Cys Phe Ser Gln Met Ser Tyr Leu
         195   200   205

Thr Ile His His Arg Ile His Ser Gly Glu Asn Leu
     210   215   220

<210> 5505
<211> 111
<212> PRT

4870

<213> Homo sapiens

<400> 5505
```
Lys Arg Glu Phe Ala Gly Glu Lys Arg Leu Asp Leu Val Glu Asp Cys
1               5                   10                  15

Leu Gly Trp Gly Ser Thr Thr Trp Arg Phe Gln Ile His Leu Ala Cys
            20                  25                  30

Lys Gln Gln Ser Tyr Pro Tyr Leu Pro His Val Asn Val Ile Ala Arg
        35                  40                  45

Val Thr Leu Asp Lys Leu Gln Thr Asp Gly Pro Ser Ser Ser Pro Gly
    50                  55                  60

Ala Pro Trp Met Ala Ala Leu Leu Gln Ser Val Ser Cys Phe Trp Asn
65                  70                  75                  80

Ser Leu Leu Gly Asn Phe Lys Glu Glu Lys Lys Asn Leu Asn Cys Val
            85                  90                  95

Glu Leu Leu Tyr Leu Leu Leu Phe Phe Phe Glu Lys Ile Asn Leu
            100                 105                 110
```

<210> 5506
<211> 157
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (55)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (132)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5506
```
Thr Lys Ser Ser Ala Leu Gly Pro Arg Ala Pro Ser Leu Arg Arg His
1               5                   10                  15

Val Leu Ile His Asn Thr Leu Gln Gln Leu Gln Ala Ala Leu Arg Leu
            20                  25                  30

Ala Pro Ala Pro Ala Leu Pro Pro Glu Pro Leu Phe Leu Gly Glu Glu
        35                  40                  45
```

4871

```
Asp Phe Ser Leu Ser Ala Xaa Ile Gly Ser Ile Leu Arg Glu Leu Asp
     50                  55                  60

Thr Ser Met Asp Gly Thr Glu Pro Pro Gln Asn Pro Val Thr Pro Leu
 65              70                  75                  80

Gly Leu Gln Asn Glu Val Pro Pro Gln Pro Asp Pro Val Phe Leu Glu
             85                  90                  95

Ala Leu Ser Ser Arg Tyr Leu Gly Asp Ser Gly Leu Asp Asp Phe Phe
         100                 105                 110

Leu Asp Ile Asp Thr Ser Ala Val Glu Lys Glu Pro Ala Arg Ala Pro
         115                 120                 125

Pro Glu Pro Xaa His Asn Leu Phe Cys Ala Pro Gly Ser Trp Glu Trp
     130                 135                 140

Asn Glu Leu Asp His Ile Met Glu Ile Ile Leu Gly Ser
145                 150                 155
```

```
<210> 5507
<211> 45
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (11)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (20)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (29)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (36)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5507
Lys Met Met Arg Val His Gln Asp Ser Thr Xaa Glu Lys Leu Pro Phe
 1               5                   10                  15
```

4872

```
Phe Pro Leu Xaa Ala Asp Trp Lys Ala Ser Arg Ala Xaa Leu Cys Ala
            20                  25                  30

Leu Phe Arg Xaa Thr His Lys Asp Leu Gly Lys Cys Lys
            35                  40                  45
```

<210> 5508
<211> 158
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (152)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5508
```
Asn Phe Ile Phe Ile Leu Lys Leu His Leu Leu Lys Ser Leu Lys Ile
  1           5                  10                  15

Ile Ser Val His Val Leu Asn Thr Ser Leu Tyr Ser Val Ile Asn Thr
            20                  25                  30

Pro Asp Phe Phe Pro Leu Thr Leu Cys His Pro Ser Val Cys Leu Val
            35                  40                  45

Ser Ser Met Pro Cys Gly Arg Gly Val Ser Leu Ser Ser Ala Gln Glu
      50                  55                  60

Gly Asn Phe Lys His Ile Cys Thr Ile Lys Phe Gln Ile Lys His Phe
65                  70                  75                  80

Lys Lys Gly Ala Gln Thr Arg Asn Thr Cys Ser Ser Glu Ile Pro Cys
                85                  90                  95

Cys Asn Cys Asn Ser Cys His Ile Tyr Pro Val Tyr Glu Glu Lys Phe
              100                 105                 110

Leu Gln Phe Ser His Cys Pro Ser Val Leu Leu Pro Gly Cys Ala Leu
          115                 120                 125

Leu Leu Glu Leu Lys Tyr Glu Ile Phe Thr Leu Lys Tyr Val Asn Val
      130                 135                 140

Lys Val Asp Arg Ile Lys Phe Xaa Asn Pro Leu Arg Phe Ile
145                 150                 155
```

4873

```
<210> 5509
<211> 54
<212> PRT
<213> Homo sapiens

<400> 5509
Ile Thr Gly Met Ser His Cys Ala Arg Pro Ser Phe Leu Phe Asn Lys
 1               5                  10                  15

Cys Met Tyr Leu Lys Ala Ile Ala Phe Ser Arg Asn Leu Phe Leu Cys
            20                  25                  30

Ser Gly Arg Ala Tyr Lys Leu Cys Leu Gln Leu Phe Phe Phe Ser Lys
            35                  40                  45

Gly Asn Thr Ser Gly Arg
        50


<210> 5510
<211> 51
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (44)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (48)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5510
Ser Thr Arg Gln Pro Asn Pro Phe Gly Ala Thr Ile Asp Cys Tyr Lys
 1               5                  10                  15

Ala His Pro Trp Val Lys Ile Tyr Tyr Leu Gln Leu Tyr Leu Met Thr
            20                  25                  30

Leu Ile Leu Pro Ser Ser Tyr Ile Lys Phe Gly Xaa Val Phe Tyr Xaa
            35                  40                  45

Ile Ile Phe
        50
```

```
<210> 5511
<211> 120
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (111)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (113)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5511
Gln Pro Arg Arg Pro Pro Arg Cys Pro Leu Pro Arg Gly Pro Trp Gly
 1               5                  10                  15

Arg Pro Arg Ala Thr Gly Pro Gln Leu Gly Cys Ile Ser Ser Thr Ser
            20                  25                  30

Cys Pro Ala Pro Thr Ser Ser Ser Ala Arg Cys Pro Ala Phe Ser Arg
            35                  40                  45

Pro Arg Ala Gly Ile Pro Ala Gly Leu Val Ala Gly Gly Gly Leu Gly
    50                  55                  60

Gly Pro Gly Leu Gly Pro Glu Pro His Phe His Arg Cys Leu Pro His
 65                  70                  75                  80

Pro Leu Leu Leu Leu Pro Ala Pro Arg Ala Pro Arg Val Gln Asp Pro
                85                  90                  95

Leu Ala Arg Gly Arg Leu Arg His Leu Glu Leu Ile Val Pro Xaa Ser
            100                 105                 110

Xaa Ala Ala Leu Ala Leu Ala Ser
            115                 120
```

```
<210> 5512
<211> 67
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (67)
<223> Xaa equals any of the naturally occurring L-amino acids
```

4875

```
<400> 5512
Ala Ile Leu Lys Gln Thr Pro Leu Lys Lys Gln Thr Asn Lys Lys Asn
 1           5               10              15

Ile Asp Phe Phe Ile Ser Phe Glu Leu Pro Pro Phe Tyr Tyr Val Met
             20              25              30

Asn Met Cys Cys Phe Cys Asn Arg Lys Ile Ile Lys Leu Lys Phe Gln
         35              40              45

Leu Gln Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
     50              55              60

Lys Lys Xaa
 65
```

```
<210> 5513
<211> 98
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (93)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5513
Asn Ala Thr Ile Ile Val Asn Lys Ile Pro Val Asn Thr Cys Cys Leu
 1           5               10              15

Cys Cys Leu Ser Pro Asp Ser Arg Ala Glu Phe Ser Phe Cys Thr Val
             20              25              30

Ala Leu Ala Leu Thr Val Thr Ala Leu Gln Gln Ala Pro Ser Pro Arg
         35              40              45

Pro Phe Arg Ser Ile Pro Gln Arg Val Leu His Val Ser Ser Pro Met
     50              55              60

Ser Ser Leu Gly Ser Ser Val Lys Thr His Ser Ser Pro Ala Gly Val
 65              70              75              80

Leu Arg Asp Ala Arg Ser Leu Trp Gly Gln Phe Gly Xaa Ile Asp Ile
             85              90              95

His Val
```

4876

<210> 5514
<211> 61
<212> PRT
<213> Homo sapiens

<400> 5514
Gly Lys Lys Arg Lys Lys Leu Tyr Phe Phe Ser Ile Tyr Leu Leu Gln
 1   5   10   15

Arg Thr Leu Cys Phe Leu Ser Cys Lys Thr Ser Tyr Phe Ser Tyr Tyr
             20   25   30

Cys Thr Leu Glu Lys Ser Cys Arg Phe Met Leu Asn Ser Tyr Leu Arg
             35   40   45

Thr Ile Val Ile Ser Ser Lys Arg His Glu Leu Ser Ser
         50   55   60

<210> 5515
<211> 53
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (34)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (53)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5515
Phe Lys Ala Leu Asn Ser Lys Ser Ile Lys Thr Tyr Leu Gly Glu Thr
 1   5   10   15

Gly Ile Met Gln Phe Ile Thr Cys Ile His Ser Ser Ile Gln Lys Tyr
             20   25   30

Gly Xaa Ile Trp Tyr Leu Lys Leu Lys Cys Gly Ser Lys Ala Thr Lys
             35   40   45

Ser Glu Thr Trp Xaa
         50

```
<210> 5516
<211> 33
<212> PRT
<213> Homo sapiens

<400> 5516
Phe Ala Asn Leu Lys Ile Gly Thr Pro Leu Gly Met Pro Asp Arg Arg
 1               5                  10                  15

Val Leu His Ile Cys Arg Gly Arg Gln Glu Leu Asn Ile Thr Thr Ser
            20                  25                  30

Phe


<210> 5517
<211> 68
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (8)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (11)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (35)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (56)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (68)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5517
Ala Thr Glu Pro Ser Leu Leu Xaa Ser Phe Xaa His Asn Phe Cys Phe
 1               5                  10                  15
```

4878

```
Ile His Asn Phe Ser Ser Ile Glu Ser Arg Ile Lys Thr Trp Val Leu
            20              25              30

Ser Leu Xaa Leu Ser Val Glu Ala Tyr Glu Cys Leu Leu Lys Ile Met
            35              40              45

Phe Leu Asn Ala Leu Asn Ile Xaa Asp Tyr Lys Gly Ile Leu Leu Phe
    50              55              60

Glu Ile Arg Xaa
65
```

<210> 5518
<211> 95
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (52)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5518
```
Thr Asn Arg Pro Leu Ser Phe Pro Gln Phe Ile Thr Phe Ser Leu Phe
 1               5              10              15

Thr Leu Cys Pro Met Thr Phe Leu His His Trp Leu Leu Phe Ile Lys
            20              25              30

Pro Thr Ile Lys Asn Ile Gln Val Gln Leu Phe Leu Trp Ala Phe Ile
            35              40              45

Ser Leu Trp Xaa Pro Ser Cys Arg Val Lys Leu Ile Leu Asn Lys Cys
    50              55              60

Ala Cys Phe Ser Leu Ala Asn Leu Ser Phe Val Ile Glu Ile Ser Ala
65              70              75              80

Leu Asn Leu Gly Trp Ile Glu Gly Asn Ile Cys Ser Pro Leu His
                85              90              95
```

<210> 5519
<211> 41
<212> PRT
<213> Homo sapiens

4879

<400> 5519

```
Asp Gly Ile Val His Phe Leu Val Leu Ser Gln Val Gln Pro Val Cys
1               5                   10                  15

Gly Asn Leu Ser Leu Pro Thr Ser Phe Val Ala Leu Val Cys Ser Gly
            20                  25                  30

Gln Lys Val Arg Ala Pro Leu Leu Thr
        35                  40
```

<210> 5520
<211> 155
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (64)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5520

```
Arg Cys Ser Ser Ile Phe Thr Pro Trp Lys Leu Thr Thr Leu Ser Ser
1               5                   10                  15

Phe Leu His His His Pro Gly Ala Gln Arg Ser Lys Leu Leu Ser Ile
            20                  25                  30

Phe Ser Pro Ser Pro Arg Thr Leu Thr Leu Tyr Arg Met Gly Pro Ser
        35                  40                  45

Ser Cys Leu Leu Leu Ile Leu Ile Pro Leu Leu Gln Leu Ile Asn Xaa
    50                  55                  60

Gly Ser Thr Gln Cys Ser Leu Asp Ser Val Met Asp Lys Lys Ile Lys
65                  70                  75                  80

Asp Val Leu Asn Ser Leu Glu Tyr Ser Pro Ser Pro Ile Ser Lys Lys
                85                  90                  95

Leu Ser Cys Ala Ser Val Lys Ser Gln Gly Arg Pro Ser Ser Cys Pro
            100                 105                 110

Ala Gly Met Ala Val Thr Gly Cys Ala Cys Gly Tyr Gly Cys Gly Ser
            115                 120                 125

Trp Asp Val Gln Leu Glu Thr Thr Cys His Cys Gln Cys Ser Val Val
    130                 135                 140

Asp Trp Thr Thr Ala Arg Cys Cys His Leu Thr
```

4880

145   150   155

<210> 5521
<211> 93
<212> PRT
<213> Homo sapiens

<400> 5521
Ile Lys Val Asp Gly Lys Ala Ile Ser Ile Arg Ile Glu Thr Glu Ser
 1   5   10   15

Tyr Asn Thr Val Cys Thr Thr Leu Arg Trp Ile His Ser Ala His Ala
            20   25   30

Leu Asn Val Tyr Ile Val Leu Ser Val Gly Ser Gly Thr Phe Ser Leu
        35   40   45

Val Phe Leu Lys Asn Tyr Lys Ser Glu Glu Lys Ala Ser Ile Ile Asn
    50   55   60

Lys Thr Asn Asn Cys Phe Thr Ala Leu Arg Asn Asn Asn Tyr Asn Val
65   70   75   80

Tyr Tyr Leu Lys Met Gly Glu Ile Val Cys Ser Met Lys
                85   90

<210> 5522
<211> 48
<212> PRT
<213> Homo sapiens

<400> 5522
Ile Ser His Ala Ile Ile Trp Val Cys Cys Ile Lys Ser Ser Thr Thr
 1   5   10   15

Leu Trp Phe Ser His Cys Ile Ile Lys His Glu Ala Ser Arg Ile Lys
            20   25   30

Ser Tyr Cys Phe Thr Cys Leu Leu Ser Pro Leu Cys His Phe Thr Phe
        35   40   45

<210> 5523

<211> 169
<212> PRT
<213> Homo sapiens

<400> 5523
His Glu Glu Lys Thr Thr Tyr Asp Ser Ala Glu Glu Glu Asn Lys Glu
1   5   10   15

Asn Leu Tyr Ala Gly Lys Asn Thr Lys Ile Lys Arg Ile Tyr Lys Thr
            20   25   30

Val Ala Asp Ser Asp Glu Ser Tyr Met Glu Lys Ser Leu Tyr Gln Glu
        35   40   45

Asn Leu Glu Ala Gln Val Lys Pro Cys Leu Glu Leu Ser Leu Gln Ser
    50   55   60

Gly Asn Ser Thr Asp Phe Thr Thr Asp Arg Lys Ser Ser'Lys Lys His
65   70   75   80

Ile His Asp Lys Glu Gly Thr Ala Gly Lys Ala Lys Val Lys Ser Lys
            85   90   95

Arg Arg Leu Glu Lys Glu Glu Arg Lys Met Glu Lys Ile Arg Gln Leu
            100   105   110

Lys Lys Lys Glu Thr Lys Asn Gln Glu Asp Asp Val Glu Gln Pro Phe
            115   120   125

Asn Asp Ser Gly Cys Leu Leu Val Asp Lys Asp Leu Phe Glu Thr Gly
    130   135   140

Leu Glu Asp Glu Asn Asn Ser Pro Leu Glu Asp Glu Glu Ser Leu Glu
145   150   155   160

Ser Ile Arg Ala Ala Val Lys Asn Lys
                165

<210> 5524
<211> 67
<212> PRT
<213> Homo sapiens

<400> 5524
Gly Gly Thr Gly Ser Glu Cys Arg Ala Gln Gly Glu Ile Gly Ser Pro
1   5   10   15

Cys Arg Thr Cys Ser Ser Pro Ala Pro Lys Gly Asp Gly Val Trp Ala
            20   25   30

4882

Trp Gly Phe Leu His Val Pro Pro Tyr Pro Asp Pro Ser Ser Gln Ser
        35   40   45

Val Thr Leu Leu Trp Ala Gln Pro Pro Asn Arg Ser His Leu Gly Leu
        50   55   60

Gly Gln Thr
65

<210> 5525
<211> 172
<212> PRT
<213> Homo sapiens

<400> 5525
Pro Thr Arg Pro Pro Thr Arg Pro Pro Thr Arg Pro Asp Ser Ser Lys
 1   5   10   15

Pro Ile Val Arg Glu Ser Trp Met Thr Glu Leu Pro Pro Glu Met Lys
            20   25   30

Asp Phe Gly Leu Gly Pro Arg Thr Phe Lys Arg Arg Ala Asp Asp Thr
        35   40   45

Ser Gly Asp Arg Ser Ile Trp Thr Asp Thr Pro Ala Asp Arg Glu Arg
    50   55   60

Lys Ala Lys Glu Thr Gln Glu Ala Arg Lys Ser Ser Ser Lys Lys Asp
65   70   75   80

Glu Glu His Ile Leu Ser Gly Arg Asp Lys Arg Leu Ala Glu Gln Val
            85   90   95

Ser Ser Tyr Asn Glu Ser Lys Arg Ser Glu Ser Leu Met Asp Ile His
            100   105   110

His Lys Lys Leu Lys Ser Lys Ala Ala Glu Asp Lys Asn Lys Pro Gln
            115   120   125

Glu Arg Ile Pro Phe Asp Arg Asp Lys Asp Leu Lys Val Asn Arg Phe
        130   135   140

Asp Glu Ala Gln Lys Lys Ala Leu Ile Lys Lys Ser Arg Glu Leu Asn
145   150   155   160

Thr Arg Phe Ser His Gly Lys Gly Asn Met Phe Leu
            165   170

4883

```
<210> 5526
<211> 76
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (53)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5526
Ala Phe Ser Arg Lys Ser His Leu Ile Pro His Gln Arg Thr His Thr
 1               5                  10                  15


Gly Glu Lys Pro Tyr Gly Cys Ser Glu Cys Arg Lys Ala Phe Ser Gln
                20              25              30


Lys Ser Gln Leu Val Asn His Gln Arg Ile His Thr Gly Glu Lys Pro
                35              40              45


Tyr Arg Cys Ile Xaa Cys Gly Lys Ala Phe Ser Gln Lys Ser Gln Leu
        50              55              60


Ile Asn His Gln Arg Thr His Thr Val Lys Lys Ser
65              70              75
```

```
<210> 5527
<211> 398
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (382)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (395)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5527
Cys Val Asn Pro Glu Leu Ile Ile Trp Val Asn Arg Phe Val Met Cys
 1               5                  10                  15


Phe Phe Val Glu Leu Lys Lys Ala Ser Lys Arg Met Thr Cys His Lys
                20              25              30
```

4884

Arg Tyr Lys Ile Gln Lys Lys Val Arg Glu His His Arg Lys Leu Arg
        35   40   45

Lys Glu Ala Lys Lys Arg Gly His Lys Lys Pro Arg Lys Asp Pro Gly
        50   55   60

Val Pro Asn Ser Ala Pro Phe Lys Glu Ala Leu Leu Arg Glu Ala Glu
65   70   75   80

Leu Arg Lys Gln Arg Leu Glu Glu Leu Lys Gln Gln Gln Lys Leu Asp
                85   90   95

Arg Gln Lys Glu Leu Glu Lys Lys Arg Lys Leu Glu Thr Asn Pro Asp
                100   105   110

Ile Lys Pro Ser Asn Val Glu Pro Met Glu Lys Glu Phe Gly Leu Cys
        115   120   125

Lys Thr Glu Asn Lys Ala Lys Ser Gly Lys Gln Asn Ser Lys Lys Leu
    130   135   140

Tyr Cys Gln Glu Leu Lys Lys Val Ile Glu Ala Ser Asp Val Val Leu
145   150   155   160

Glu Val Leu Asp Ala Arg Asp Pro Leu Gly Cys Arg Cys Pro Gln Val
                165   170   175

Glu Glu Ala Ile Val Gln Ser Gly Gln Lys Lys Leu Val Leu Ile Leu
            180   185   190

Asn Lys Ser Asp Leu Val Pro Lys Glu Asn Leu Glu Ser Trp Leu Asn
        195   200   205

Tyr Leu Lys Lys Glu Leu Pro Thr Val Val Phe Arg Ala Ser Thr Lys
    210   215   220

Pro Lys Asp Lys Gly Lys Ile Thr Lys Arg Val Lys Ala Lys Lys Asn
225   230   235   240

Ala Ala Pro Phe Arg Ser Glu Val Cys Phe Gly Lys Glu Gly Leu Trp
            245   250   255

Lys Leu Leu Gly Gly Phe Gln Glu Thr Cys Ser Lys Ala Ile Arg Val
            260   265   270

Gly Val Ile Gly Phe Pro Asn Val Gly Lys Ser Ser Ile Ile Asn Ser
        275   280   285

Leu Lys Gln Glu Gln Met Cys Asn Val Gly Val Ser Met Gly Leu Thr
    290   295   300

4885

```
Arg Ser Met Gln Val Val Pro Leu Asp Lys Gln Ile Thr Ile Ile Asp
305             310         315             320

Ser Pro Ser Phe Ile Val Ser Pro Leu Asn Ser Ser Ser Ala Leu Ala
                325             330             335

Leu Arg Ser Pro Ala Ser Ile Glu Val Val Lys Pro Met Glu Ala Ala
            340             345             350

Ser Ala Ile Leu Ser Gln Ala Asp Ala Arg Gln Val Val Leu Lys Tyr
        355             360             365

Thr Val Pro Gly Tyr Arg Asn Ser Leu Gly Ile Phe Tyr Xaa Ala Cys
    370             375             380

Ser Glu Lys Arg Tyr Ala Pro Lys Arg Trp Xaa Pro Lys Cys
385             390             395
```

<210> 5528
<211> 78
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (53)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (59)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (68)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5528

```
Gln Ser Gly Arg Gly Gly Asp Arg Gly Arg Ser Lys Val Asp Thr Ser
 1              5               10              15

Ala Lys Pro Phe Ala Val Ile Ser Asp Cys Ala Val Ser Cys Pro Val
            20              25              30

His Gln Ser Pro Leu Val Phe Asp Val Gly Gln Cys Arg Gln His Asp
        35              40              45
```

4886

```
Leu Ala Gly Gln Xaa Leu Ile Tyr His Ser Xaa Asp Thr Ser Trp Ser
        50              55              60

Leu Gly Ser Xaa His Pro Met Phe Pro Leu Phe Pro His Leu
    65              70              75
```

<210> 5529
<211> 80
<212> PRT
<213> Homo sapiens

<400> 5529
```
Glu Pro Ala Trp Gly Asp Cys Gln Val Ala Lys Gly Lys Glu Arg Val
    1           5               10              15

Ala Asn Cys Leu Leu His Leu Ala Ala Gln Pro Gly Leu Pro Ala Phe
            20              25              30

Lys Gly His Phe Phe Gly Gln Glu Leu Thr Arg Met Ser Pro Glu Ser
            35              40              45

Ser Thr Pro Arg Val Cys Gly Asn His Pro Leu Leu Asn Thr Glu Ser
        50              55              60

Cys Arg Ile Ile Val Gly Lys Glu Ala Thr Ser Ser Glu Ala Val Val
65              70              75              80
```

<210> 5530
<211> 155
<212> PRT
<213> Homo sapiens

<400> 5530
```
Ala Val Thr Ser Leu Lys Ala Pro Val Ile Thr Leu Arg Ser Ser Ser
    1           5               10              15

Ser Asn Cys His Pro Thr Ser Leu Ala Ser Cys Arg Lys Val Asn Leu
            20              25              30

Asp Asn Thr Trp Leu Ser Phe Leu Thr Asn Ala Gly Ser Gly Arg Asn
            35              40              45

Ser Leu Val Leu Lys Ser Lys Asn Thr Asn Cys Leu Arg Phe Ser Asn
        50              55              60
```

4887

```
Thr Pro Met Lys Ala Ser His Pro Ser Leu Leu Thr Arg Phe Pro Ala
65              70              75              80

Lys Phe Asn Cys Trp Lys Phe Phe Arg Gly Phe Phe Pro Lys Asn Ala
                85              90              95

Pro Lys Ile Leu Ile Ser Val Ser Val Ser Leu Gln Phe Phe Asn Pro
            100             105             110

Ser Leu Thr Ser Cys Gly Thr Ser Ser Lys Cys Phe Asn Lys Leu Leu
        115             120             125

Arg Leu Pro Cys Thr Ser Gln Pro Gln Gly Ser Ile Ser Ala Val Ser
    130             135             140

Cys Ser Ser Thr Phe Ile Leu Ser Ile Ser Ser
145             150             155
```

```
<210> 5531
<211> 63
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (52)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5531
Ile Ile Val Ile Ile Gly Val Ser His His Ala Arg Pro Val Ser Ala
1               5               10              15

Phe Ile Lys Ile Val His Ser Phe Ile His Ser Cys Ser Leu Lys Met
            20              25              30

Leu Phe Arg Lys Glu Phe Asp Lys Ile Asn Ile Ile Gln Asn Ser Lys
        35              40              45

Lys Lys Glu Xaa Ser Phe Cys Phe Ser His Lys Leu Gly Leu Leu
    50              55              60
```

```
<210> 5532
<211> 145
<212> PRT
<213> Homo sapiens
```

4888

```
<220>
<221> SITE
<222> (95)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (100)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5532
Lys Gln Pro Pro Leu Gln Ser His Pro Pro Ser Gly Cys Gly Arg Pro
 1           5               10              15

Gly Trp Pro Ala Glu Ala Pro Arg Pro Gly Leu His Pro Ser Ala Gln
            20              25              30

Thr Thr Ala Gly Arg Ala Gly Val Gln Val Gly Gln Leu Pro Pro Phe
        35              40              45

His Pro Ser Pro Pro Leu Leu Arg Pro His Gln Glu Gln Asp Pro Cys
    50              55              60

Ala Ser Val Val Leu Pro Cys Leu Gln Ala Ala Cys Gly Pro Ala Val
65              70              75              80

Thr Gln Pro Gly Asp Thr Thr Ser Pro Gly Gly Leu Cys Ala Xaa Arg
            85              90              95

His Leu Arg Xaa Trp Lys Pro Ser Cys Gly Arg Arg Leu Gly Glu Gly
            100             105             110

Arg Arg Glu Gly Gly His Ala Ala Ser Val Ala Ser Thr Thr Leu Thr
    115             120             125

Val Pro Trp Arg Trp Leu Ser Pro Asp Arg Gly Gln Thr His Arg Ala
    130             135             140

Arg
145


<210> 5533
<211> 113
<212> PRT
<213> Homo sapiens

<400> 5533
Glu Ser Trp Tyr Ala Cys Arg Tyr Arg Ser Gly Ile Pro Gly Ser Thr
 1           5               10              15
```

4889

His Ala Ser Ala Asp Ala Trp Gly Lys Thr Phe Ala Arg Tyr Leu Ser
              20   25   30

Phe Arg Arg Asp Asn Asn Glu Leu Leu Leu Phe Ile Leu Lys Gln Leu
          35   40   45

Val Ala Glu Gln Val Thr Tyr Gln Arg Asn Arg Phe Gly Ala Gln Gln
      50   55   60

Asp Thr Ile Glu Val Pro Glu Lys Asp Leu Val Asp Lys Ala Arg Gln
65   70   75   80

Ile Asn Ile His Asn Leu Ser Ala Phe Tyr Asp Ser Glu Leu Phe Arg
              85   90   95

Met Asn Lys Phe Ser His Asp Leu Lys Arg Lys Met Ile Leu Gln Gln
          100   105   110

Phe

<210> 5534
<211> 180
<212> PRT
<213> Homo sapiens

<400> 5534
Phe Ser Gln His Ser Arg Leu Ala Val His Arg Arg Ile His Thr Gly
 1   5   10   15

Glu Lys Pro Tyr Lys Cys Lys Glu Cys Gly Lys Val Phe Ser Asp Arg
              20   25   30

Ser Ala Phe Ala Arg His Arg Arg Ile His Thr Gly Glu Lys Pro Tyr
          35   40   45

Lys Cys Lys Glu Cys Gly Lys Val Phe Ser Gln Cys Ser Arg Leu Thr
      50   55   60

Val His Leu Arg Ile His Ser Gly Glu Lys Pro Tyr Lys Cys Asn Glu
65   70   75   80

Cys Gly Lys Val Tyr Ser Gln Tyr Ser His Leu Val Gly His Arg Arg
              85   90   95

Val His Thr Gly Glu Lys Pro Tyr Lys Cys His Glu Cys Gly Lys Ala
          100   105   110

4890

Phe Asn Gln Gly Ser Thr Leu Asn Arg His Gln Arg Ile His Thr Gly
        115   120   125

Glu Lys Pro Tyr Lys Cys Asn Gln Cys Gly Asn Ser Phe Ser Gln Arg
        130   135   140

Val His Leu Arg Leu His Gln Thr Val His Thr Gly Asp Arg Pro Tyr
145   150   155   160

Lys Cys Asn Glu Cys Gly Gln Asn Leu Leu Asn Gly Ala Gln Thr Ser
            165   170   175

Leu His Ile Arg
            180

<210> 5535
<211> 164
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (102)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (107)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (151)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5535
Pro Arg Met Ala Thr Gln Arg Lys His Leu Val Lys Asp Phe Asn Pro
  1   5   10   15

Tyr Ile Thr Cys Tyr Ile Cys Lys Gly Tyr Leu Ile Lys Pro Thr Thr
            20   25   30

Val Thr Glu Cys Leu His Thr Phe Cys Lys Thr Cys Ile Val Gln His
        35   40   45

Phe Glu Asp Ser Asn Asp Cys Pro Arg Cys Gly Asn Gln Val His Glu
        50   55   60

Thr Asn Pro Leu Glu Met Leu Arg Leu Asp Asn Thr Leu Glu Glu Ile

4891

```
    65                    70                    75                    80

Ile Phe Lys Leu Val Pro Gly Leu Arg Glu Gln Glu Leu Glu Arg Glu
                85                    90                    95

Ser Glu Phe Trp Lys Xaa Asn Lys Pro Gln Xaa Asn Gly Gln Asp Asp
                100                   105                   110

Thr Ser Lys Ala Asp Lys Pro Lys Val Asp Glu Glu Gly Asp Glu Asn
            115                   120                   125

Glu Asp Asp Lys Asp Tyr Pro Gln Glu Val Thr His Lys Leu Ala Ile
        130                   135                   140

Cys Leu Gly Cys Phe Thr Xaa Leu Met Gly Pro Phe Gly Gly His Val
145                   150                   155                   160

Gly Lys Gly Phe
```

```
<210> 5536
<211> 55
<212> PRT
<213> Homo sapiens

<400> 5536
Asn Ser Val Lys Phe Cys Leu Lys Lys Pro Leu Ile Glu Phe Glu Asn
 1               5                   10                  15

His Lys Pro Phe Gln Val Ser Leu Trp Val Cys Phe Gly Phe Phe Phe
                20                  25                  30

Phe Phe Leu Ser Leu Trp Pro Asn Val Arg Gly Ile Arg Phe Cys Lys
            35                  40                  45

Gln Ala Ala Val Ser Ile Ser
        50                  55
```

```
<210> 5537
<211> 64
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (24)
<223> Xaa equals any of the naturally occurring L-amino acids
```

4892

```
<400> 5537
Ser Gly Pro Pro Gly Leu His Ser Arg Ser Ser Pro Ala Pro Ser Ala
1               5                   10              15

Ser Val Glu Pro Gln Ala Trp Xaa Arg Asp Glu Arg Asp Ala Ala Leu
            20              25              30

Ala Arg Gly Arg Pro Ser Ala Pro Lys Thr Arg Glu Gln Ala Pro Gly
        35              40              45

Glu Lys Pro Leu Glu Val Ser Trp Ser Arg Glu Ser Pro Val Ser Cys
    50              55              60
```

```
<210> 5538
<211> 68
<212> PRT
<213> Homo sapiens
```

```
<400> 5538
Ala Phe Asp Gly Leu Ser Thr Ser Ser Gln His Ile Leu Pro Ala
1               5                   10              15

Val Ala Ala Trp Leu Gly Leu Phe Phe Ser Tyr Pro Asn Pro Met Met
            20              25              30

Pro Gly Thr Leu Ile Thr Val Leu His Gln Leu Leu Tyr Phe Ser Val
        35              40              45

Tyr Phe His Asn Glu Leu Tyr Cys His Leu Asp Phe Glu Gln Leu Trp
    50              55              60

Glu Ile Glu Asp
65
```

```
<210> 5539
<211> 113
<212> PRT
<213> Homo sapiens
```

```
<400> 5539
Gln Glu Pro Pro Ile Met Ala Glu Gly Lys Gly Gly Val Ser Cys Leu
1               5                   10              15
```

4893

Thr Trp Pro Glu Gln Glu Val Glu Arg Gly Arg Cys His Thr Leu Thr
            20   25   30

Asn Asn Gln Ile Ser Gly Gln Leu Thr Gln Tyr Gln Glu Asn Ser Thr
            35   40   45

Thr Lys Leu Trp Leu Ile Ile His Glu Lys Pro Pro Thr Thr Gln Ser
            50   55   60

Pro Pro Thr Arg Pro Tyr Leu Gln His Leu Gly Leu Gln Phe Asn Met
65   70   75   80

Arg Phe Gly Gly Asn Thr Asp Pro Asn His Ile Thr His Lys Leu Gln
                85   90   95

Leu Leu His Thr His Asp Asn Pro Leu Ile Cys Glu Gly Leu Ile Cys
                100   105   110

Ser

<210> 5540
<211> 33
<212> PRT
<213> Homo sapiens

<400> 5540
Ser Arg Tyr Tyr Ser Glu Ala Cys Ile Leu Tyr Ala Ser Gly His Val
    1   5   10   15

Leu Ser Cys Glu Val Arg Cys Ile Ser Tyr Cys Gly Leu Gln Ser Lys
            20   25   30

Phe

<210> 5541
<211> 63
<212> PRT
<213> Homo sapiens

<400> 5541
Gly Ala Asp Ser Ala Cys Pro Gly Pro Ala Lys Trp Leu Ser Ser Leu
    1   5   10   15

Arg Ala His Val Val Arg Thr Gly Ile Gly Gln Ala Arg Ala Lys Leu
            20   25   30

4894

```
Phe Glu Lys Gln Ile Val Gln His Gly Gly Gln Leu Cys Pro Ala Gln
         35              40              45

Gly Pro Gly Val Thr His Ile Val Val Asp Glu Ala Trp Thr Met
         50              55              60


<210> 5542
<211> 62
<212> PRT
<213> Homo sapiens

<400> 5542
Met Ser Gln Ala Gly Asn Ser Glu Val Tyr Leu Ala Ile His Val Phe
1             5             10              15

Lys Met Ala Ala Ser Arg Arg Phe Thr Gly Val Pro Asp Arg Arg Gly
         20              25              30

Gly Gly Ala Gln Ala Arg Met Lys Leu Glu Leu Ala Arg Ser Arg Lys
         35              40              45

Thr Ile Ala Gly Gly Thr Ala Ser Val Gly Ala Glu Glu Thr
         50              55              60


<210> 5543
<211> 317
<212> PRT
<213> Homo sapiens

<400> 5543
Gly Gly Pro Met Lys Asp Cys Glu Tyr Ser Gln Ile Ser Thr His Ser
1             5             10              15

Ser Ser Pro Met Glu Ser Pro His Lys Lys Lys Ile Ala Ala Arg
         20              25              30

Arg Lys Trp Glu Val Phe Pro Gly Arg Asn Lys Phe Phe Cys Asn Gly
         35              40              45

Arg Ile Met Met Ala Arg Gln Thr Gly Val Phe Tyr Leu Thr Leu Val
         50              55              60

Leu Ile Leu Val Thr Ser Gly Leu Phe Phe Ala Phe Asp Cys Pro Tyr
65              70              75              80

Leu Ala Val Lys Ile Thr Pro Ala Ile Pro Ala Val Ala Gly Ile Leu
```

4895

```
                85                        90                        95

Phe Phe Phe Val Met Gly Thr Leu Leu Arg Thr Ser Phe Ser Asp Pro
        100             105             110

Gly Val Leu Pro Arg Ala Thr Pro Asp Glu Ala Ala Asp Leu Glu Arg
        115             120             125

Gln Ile Asp Ile Ala Asn Gly Thr Ser Ser Gly Gly Tyr Arg Pro Pro
    130             135             140

Pro Arg Thr Lys Glu Val Ile Ile Asn Gly Gln Thr Val Lys Leu Lys
145             150             155             160

Tyr Cys Phe Thr Cys Lys Ile Phe Arg Pro Pro Arg Ala Ser His Cys
            165             170             175

Ser Leu Cys Asp Asn Cys Val Glu Arg Phe Asp His His Cys Pro Trp
        180             185             190

Val Gly Asn Cys Val Gly Lys Arg Asn Tyr Arg Phe Phe Tyr Met Phe
        195             200             205

Ile Leu Ser Leu Ser Phe Leu Thr Val Phe Ile Phe Ala Phe Val Ile
    210             215             220

Thr His Val Ile Leu Arg Ser Gln Gln Thr Gly Phe Leu Asn Ala Leu
225             230             235             240

Lys Asp Ser Pro Ala Ser Val Leu Glu Ala Val Val Cys Phe Phe Ser
            245             250             255

Val Trp Ser Ile Val Gly Leu Ser Gly Phe His Thr Tyr Leu Ile Ser
            260             265             270

Ser Asn Gln Thr Thr Asn Glu Asp Ile Lys Gly Ser Trp Ser Asn Lys
        275             280             285

Arg Gly Lys Glu Asn Tyr Asn Pro Tyr Ser Tyr Gly Asn Ile Phe Thr
        290             295             300

Asn Cys Cys Val Ala Leu Cys Gly Pro Ser His Gln Ala
305             310             315
```

<210> 5544
<211> 76
<212> PRT
<213> Homo sapiens

4896

<400> 5544
Ile Val Gly Leu Phe His Met Cys Ser Leu Lys Tyr Leu Asn Asn His
1   5   10   15

Ser Phe His Ser Leu Phe Ser Ser Gln Ala Phe Ser Arg Ser Ser Met
                20   25   30

Trp Ile Leu Lys Asp Leu Pro Ser Leu Thr Arg Ile Thr Phe Lys Gly
            35   40   45

Asp Cys Phe Lys Ile Phe Leu Gln Ile Glu Ile Arg Thr Glu Arg Leu
        50   55   60

Arg Asn Ile Val Tyr Phe Ala Lys Thr Arg Cys Leu
65   70   75

<210> 5545
<211> 117
<212> PRT
<213> Homo sapiens

<400> 5545
Glu Thr Leu Val Asn Trp Ser Thr Gly Glu Ser Tyr Lys Trp Pro Met
1   5   10   15

Ser Gln Lys Ser Trp Asp Leu Leu Pro Ala Ala Ala Asp Ala Asp Arg
                20   25   30

Pro Trp Glu Ala Ala Val Leu Trp Arg Ser Trp Ser Ser Ser Phe Leu
            35   40   45

Gly Leu Ala Trp Leu Pro Gln Lys Glu Gln Ser Gly Leu Glu Gly Ser
        50   55   60

Ile Lys Phe Tyr Thr His Lys Leu Gln Leu Glu Val Ser Phe Leu Lys
65   70   75   80

Cys Pro Ala Phe Ala Gln Leu Phe Gln Ile Ile Ser Phe Leu Arg Leu
                85   90   95

Trp Gln Val Ser Cys Pro Pro Ser Tyr Ser Ser Val Phe Thr Ser Ser
                100   105   110

Arg Gln Gln Ser Gly
            115

<210> 5546

4897

```
<211> 67
<212> PRT
<213> Homo sapiens

<400> 5546
Val Gln Ile Asn His Pro Asp Leu Lys Val Asn Thr Phe Tyr Phe Ser
1               5                   10                  15


Phe Arg Ser Ile Thr Glu Tyr Ala Ala Phe Arg Tyr Arg Phe Asn Leu
                20                  25                  30


Pro Asp Phe Leu Lys Ile Leu Tyr Phe Tyr Ile Ala Thr Thr Gly Leu
            35                  40                  45


Leu Asn Met Gln Leu Asn Cys Tyr Leu Asn Lys Leu His Leu Met Glu
        50                  55                  60


Lys Lys Lys
 65




<210> 5547
<211> 315
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (115)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5547
Asn Ile Glu Gln Glu Asn Glu Lys Leu Lys Ala Glu Leu Glu Lys Leu
1               5                   10                  15


Lys Ala His Leu Gly His Gln Leu Ser Met His Tyr Glu Ser Lys Thr
                20                  25                  30


Lys Gly Thr Glu Lys Ile Ile Ala Glu Asn Glu Arg Leu Arg Lys Glu
            35                  40                  45


Leu Lys Lys Glu Thr Asp Ala Ala Glu Lys Leu Arg Ile Ala Lys Asn
        50                  55                  60


Asn Leu Glu Ile Leu Asn Glu Lys Met Thr Val Gln Leu Glu Glu Thr
65                  70                  75                  80


Gly Lys Arg Leu Gln Phe Ala Glu Ser Arg Gly Pro Gln Leu Glu Gly
                85                  90                  95
```

4898

```
Ala Asp Ser Lys Ser Trp Lys Ser Ile Val Val Thr Arg Met Tyr Glu
            100             105             110

Thr Lys Xaa Lys Glu Leu Glu Thr Asp Ile Ala Lys Lys Asn Gln Ser
            115             120             125

Ile Thr Asp Leu Lys Gln Leu Val Lys Glu Ala Thr Glu Arg Glu Gln
    130             135             140

Lys Val Asn Lys Tyr Asn Glu Asp Leu Glu Gln Gln Ile Lys Ile Leu
145             150             155             160

Lys His Val Pro Glu Gly Ala Glu Thr Glu Gln Gly Leu Lys Arg Glu
            165             170             175

Leu Gln Val Leu Arg Leu Ala Asn His Gln Leu Asp Lys Glu Lys Ala
            180             185             190

Glu Leu Ile His Gln Ile Glu Ala Asn Lys Asp Gln Ser Gly Ala Glu
            195             200             205

Ser Thr Ile Pro Asp Ala Asp Gln Leu Lys Glu Lys Ile Lys Asp Leu
    210             215             220

Glu Thr Gln Leu Lys Met Ser Asp Leu Glu Lys Gln His Leu Lys Glu
225             230             235             240

Glu Ile Lys Lys Leu Lys Lys Glu Leu Glu Asn Phe Asp Pro Ser Phe
            245             250             255

Phe Glu Glu Ile Glu Asp Leu Lys Tyr Asn Tyr Lys Glu Glu Val Lys
            260             265             270

Lys Asn Ile Leu Leu Glu Glu Lys Val Lys Lys Leu Ser Glu Gln Leu
            275             280             285

Gly Val Glu Leu Thr Ser Pro Val Ala Ala Ser Glu Glu Phe Glu Asp
    290             295             300

Glu Glu Glu Ser Pro Val Asn Phe Pro Ile Tyr
305             310             315
```

```
<210> 5548
<211> 191
<212> PRT
<213> Homo sapiens

<400> 5548
Gln Leu Asn Thr Ser Ser Thr Asn His Gln Leu Pro Ser Glu His Gln
```

4899

```
1                    5                    10                   15

Thr Ile Leu Ser Ser Arg Asp Ser Arg Asn Ser Leu Arg Ser Asn Phe
            20                  25                  30

Ser Ser Arg Glu Ser Glu Ser Ser Arg Ser Asn Thr Gln Pro Gly Phe
            35                  40                  45

Ser Tyr Ser Ser Ser Arg Asp Glu Ala Pro Ile Ile Ser Asn Ser Glu
        50                  55                  60

Arg Val Val Ser Ser Gln Arg Pro Phe Gln Glu Ser Ser Asp Asn Glu
65                  70                  75                  80

Gly Arg Arg Thr Thr Arg Arg Leu Leu Ser Arg Ile Ala Ser Ser Met
            85                  90                  95

Ser Ser Thr Phe Phe Ser Arg Arg Ser Ser Gln Asp Ser Leu Asn Thr
            100                 105                 110

Arg Ser Leu Asn Ser Glu Asn Ser Tyr Val Ser Pro Arg Ile Leu Thr
        115                 120                 125

Ala Ser Gln Ser Arg Ser Asn Val Pro Ser Ala Ser Glu Val Pro Asp
    130                 135                 140

Asn Arg Ala Ser Glu Ala Ser Gln Gly Phe Arg Phe Leu Arg Arg Arg
145                 150                 155                 160

Trp Gly Leu Ser Ser Leu Ser His Asn His Ser Ser Glu Ser Asp Ser
                165                 170                 175

Glu Asn Phe Asn Gln Glu Ser Glu Gly Arg Asn Thr Gly Pro Trp
            180                 185                 190
```

<210> 5549
<211> 127
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (57)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5549
```
Ala Asn Thr Ser Thr Arg Ala Ala Leu Tyr Cys Leu Phe Leu Ser Phe
    1                5                  10                  15
```

4900

```
Ile Met Phe Ala Ser Val Leu Gln Ile Asn Pro Arg Ser Trp Leu Met
            20              25              30

Lys Lys Val Ile Thr Val Leu Ala Ala Cys Leu Glu Ser Glu Asn Gln
            35              40              45

Asn Ala Gln Arg Ile Gly Ala Ala Xaa Leu Trp Ala Leu Ile Tyr Asn
    50              55              60

Tyr Gln Lys Ala Lys Thr Ala Leu Lys Ser Pro Ser Val Lys Arg Arg
65              70              75              80

Val Asp Glu Ala Tyr Ser Leu Ala Lys Lys Thr Phe Pro Asn Ser Glu
                85              90              95

Ala Asn Pro Leu Asn Ala Tyr Tyr Leu Lys Cys Leu Glu Asn Leu Val
            100             105             110

Gln Leu Leu Asn Ser Ser Leu Ser Ala His Gly Met Pro Thr Pro
            115             120             125
```

```
<210> 5550
<211> 89
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (32)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (57)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5550
```

```
Leu Asn His Leu Gln Asn Ala Ser Thr Pro Gly Tyr Ser Lys Leu Pro
1               5               10              15

Phe Gln Ile His Phe Gln Thr Ala Leu Thr Trp Ala Ser His Trp Xaa
            20              25              30

Ser Trp Leu Leu Val Gly Ala Ile Ser Cys Val Asp Pro Gln Val Arg
            35              40              45

Gly Pro Gly Pro Pro Ala Pro Pro Xaa Gln Arg Gly Glu Pro Ala Gln
    50              55              60
```

4901

Phe Phe Trp Ser Leu Lys Cys Val Pro Leu Leu Val Ala Arg Ser Pro
65   70   75   80

Gln Trp Gly Gly Leu Thr Arg Thr Arg
                85

<210> 5551
<211> 98
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (81)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (84)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5551
Ala Arg Gln Val Lys Ser Leu Arg Asp Pro Ser Ala Lys Met Ser Lys
 1   5   10   15

Ser Asp Pro Asp Lys Leu Ala Thr Val Arg Ile Thr Asp Ser Pro Glu
            20   25   30

Glu Ile Val Gln Lys Phe Arg Lys Ala Val Thr Asp Phe Thr Ser Glu
            35   40   45

Val Thr Tyr Asp Pro Ala Gly Arg Ala Gly Val Ser Asn Ile Val Ala
    50   55   60

Val His Ala Ala Val Thr Gly Leu Ser Val Glu Glu Val Val Arg Arg
65   70   75   80

Xaa Ala Gly Xaa Glu His Cys Ser Leu Gln Ala Gly Arg Gly Arg Cys
                85   90   95

Cys Asp

<210> 5552
<211> 74
<212> PRT
<213> Homo sapiens

4902

<400> 5552
Thr Glu Glu Val Asp Ser Val Ala Val Ser Val Leu Ala Leu Gly Ser
1   5   10   15

Arg Ile Gly Glu Leu Arg Ala Pro Ile Trp Asp Glu Glu Ser Arg Lys
            20   25   30

Gln Leu Ser Ile Ser Ile Lys Arg Ala Glu Gln Pro Leu Ser Leu His
        35   40   45

Pro Pro Ser Ala Leu Phe Ser Leu Pro Pro Ser Leu Leu Ser Phe His
    50   55   60

Ser Val Tyr Val Ser Phe Gly Pro Ile Pro
65   70

<210> 5553
<211> 65
<212> PRT
<213> Homo sapiens

<400> 5553
Gly Thr Gly Ser Gln Cys Thr Gln His Gly Ala Ile Ser Asp Val Ile
1   5   10   15

Gln Arg Met Arg Gln Asp Lys Ser Tyr Cys Leu Ile Lys Gly Lys Leu
            20   25   30

Gly Thr Gly Met Leu Phe Lys Leu Arg Lys Ile Phe Trp Gly Val Lys
        35   40   45

Leu Asp Ser Thr Glu Ser Leu Glu Lys Leu Ala Trp Arg Glu Lys Arg
    50   55   60

His
65

<210> 5554
<211> 82
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (25)
<223> Xaa equals any of the naturally occurring L-amino acids

```
<220>
<221> SITE
<222> (26)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (42)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (45)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (54)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (75)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5554
Ala Pro Thr Asn Leu Phe Phe Phe Phe Phe Glu Thr Glu Ser Gly
 1               5                  10                  15

Cys Ala Ser His Phe Leu Ser Phe Xaa Xaa Ser Glu Leu Thr Glu Gln
            20                  25                  30

Pro Gly Arg Cys Gly Phe Arg Ser Leu Xaa Leu Ser Xaa Cys Ala Lys
            35                  40                  45

Cys Trp Gly Arg Arg Xaa Gln Arg Val Asp Ser Gly Met Val Pro Ala
        50                  55                  60

Ala Ser His Phe Tyr Ala Lys Pro Asp Phe Xaa Ser His Pro Gly Gly
 65                  70                  75                  80

Gln Phe


<210> 5555
<211> 47
<212> PRT
<213> Homo sapiens
```

4904

<400> 5555
Ile Phe Ile Ile Glu Val Ser Phe Pro Leu Gly Ile Ser Leu Ser Leu
 1   5   10   15

Phe Phe Phe Asn Glu Asn Gln Ser Thr Glu Tyr Phe Val Ser Pro Arg
            20   25   30

Lys Thr Pro Gln Leu Ser Ile Met Leu Ser Thr Arg Glu Lys Leu
            35   40   45

<210> 5556
<211> 112
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (103)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5556
Gly Asn Cys Gln Lys Cys Ala Phe Gly Tyr Ser Gly Leu Asp Cys Lys
 1   5   10   15

Asp Lys Phe Gln Leu Ile Leu Thr Ile Val Gly Thr Ile Ala Gly Ile
            20   25   30

Val Ile Leu Ser Met Ile Ile Ala Leu Ile Val Thr Ala Arg Ser Asn
            35   40   45

Asn Lys Thr Lys His Ile Glu Glu Glu Asn Leu Ile Asp Glu Asp Phe
    50   55   60

Gln Asn Leu Lys Leu Arg Ser Thr Gly Phe Thr Asn Leu Gly Ala Glu
65   70   75   80

Gly Ser Val Phe Pro Lys Val Arg Ile Thr Ala Ser Arg Asp Ser Gln
                85   90   95

Met Gln Asn Pro Tyr Ser Xaa His Ser Ser Met Pro Arg Pro Asp Tyr
            100   105   110

<210> 5557

4905

```
<211> 152
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (143)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (147)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (151)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5557
Phe Thr Ala Arg Ser Pro Trp Glu Tyr Thr Asn Leu Cys Ser Arg Gln
 1               5                  10                  15

Leu Gly Ala Ser Leu Leu Glu Thr Val Leu Ile Phe Phe Phe Leu Ser
             20                  25                  30

Glu Phe Gln Leu Ile Leu Thr Ile Val Gly Thr Ile Ala Gly Ile Val
         35                  40                  45

Ile Leu Ser Met Ile Ile Ala Leu Ile Val Thr Ala Arg Ser Asn Asn
     50                  55                  60

Lys Thr Lys His Ile Glu Glu Glu Asn Leu Ile Asp Glu Asp Phe Gln
65                  70                  75                  80

Asn Leu Lys Leu Arg Ser Thr Gly Phe Thr Asn Leu Gly Ala Glu Gly
             85                  90                  95

Ser Val Phe Pro Lys Val Arg Ile Thr Ala Ser Arg Asp Ser Gln Met
             100                 105                 110

Gln Asn Pro Tyr Ser Ser His Thr Gln Lys Lys Lys Lys Lys Lys Lys
             115                 120                 125

Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Xaa Lys
     130                 135                 140

Lys Lys Xaa Lys Lys Lys Xaa Gly
145                 150
```

```
<210> 5558
<211> 169
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (4)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (6)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (16)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (44)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5558
Phe Phe Phe Xaa Val Xaa Glu Lys Ser Ile Leu Leu Val Ser Leu Xaa
  1               5                  10                  15

Val Cys Leu Val Leu Ser Glu Ile Pro Phe Met Ser Thr Trp Phe Leu
              20                  25                  30

Leu Val Ser Thr Phe Ser Met Leu Pro Leu Leu Xaa Lys Asp Glu Leu
              35                  40                  45

Leu Met Pro Ser Val Val Thr Thr Met Ala Phe Phe Ile Ala Cys Val
          50                  55                  60

Thr Ser Phe Ser Ile Phe Glu Lys Thr Ser Glu Glu Glu Leu Gln Leu
 65                  70                  75                  80

Lys Ser Phe Ser Ile Ser Val Arg Lys Tyr Leu Pro Cys Phe Thr Phe
                  85                  90                  95

Leu Ser Arg Ile Ile Gln Tyr Leu Phe Leu Ile Ser Val Ile Thr Met
              100                 105                 110

Val Leu Leu Thr Leu Met Thr Val Thr Leu Asp Pro Pro Gln Lys Leu
              115                 120                 125
```

4907

```
Pro Asp Leu Phe Ser Val Leu Val Cys Phe Val Ser Cys Leu Asn Phe
    130             135             140
```

```
Leu Phe Phe Leu Val Tyr Phe Asn Ile Ile Ile Met Trp Asp Ser Lys
145             150             155             160
```

```
Ser Gly Arg Asn Gln Lys Lys Ile Ser
                165
```

```
<210> 5559
<211> 67
<212> PRT
<213> Homo sapiens
```

```
<220>
<221> SITE
<222> (52)
<223> Xaa equals any of the naturally occurring L-amino acids
```

```
<220>
<221> SITE
<222> (56)
<223> Xaa equals any of the naturally occurring L-amino acids
```

```
<220>
<221> SITE
<222> (61)
<223> Xaa equals any of the naturally occurring L-amino acids
```

```
<400> 5559
Gly Trp Arg His Gly Gly Glu His His Gln Asp His Val Glu Leu Gly
  1             5             10             15
```

```
Arg Asp Cys Pro Pro Lys Lys Asn Ile Gly Pro Leu Gln Ala Gln Pro
            20             25             30
```

```
Pro Leu Pro Leu Glu Phe Phe Ser Gln Ala Gln Cys Gln Lys Phe Ser
        35             40             45
```

```
Leu Gly Trp Xaa Gln Ile Cys Xaa Thr Gly Phe Pro Xaa Ser Ser Thr
    50             55             60
```

```
Leu Pro Pro
 65
```

```
<210> 5560
<211> 115
```

4908

```
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (109)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5560
Ser Ser Lys Cys Gly Phe Ser Cys Ile Ser Gln Ile Gly Arg Pro Gly
 1               5                  10                  15

Val Val Gly Val Pro Gly Gly Arg Leu Trp Ala Gly Ser Gln Asp Pro
            20                  25                  30

Pro Phe Leu Gly Gly Asp Arg Ala Cys Gly Ala Ala Pro Arg Asn Val
        35                  40                  45

Arg Arg Lys Arg Glu Arg Ala Leu Ala Pro Ser Ala Ser Cys Leu Arg
       50                  55                  60

Cys Trp Arg Leu Pro Ile Arg Trp Phe Tyr Pro Gln Thr Pro Gly His
65                  70                  75                  80

Arg Glu Ser Arg Arg Lys Gly Gln Pro Arg Ile Pro Ala Gly Phe Leu
                85                  90                  95

His Arg Gly Ala Ser Gln Phe Leu His Leu Ile Phe Xaa Ser Cys Gly
            100                 105                 110

Arg Cys Tyr
        115


<210> 5561
<211> 210
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (137)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (142)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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4909

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<221> SITE
<222> (171)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (179)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (193)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (197)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (210)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5561
Glu Glu Ala Ala Lys Ala Ala Gly Thr His Phe Thr Ser Gln Gln Leu
 1               5               10              15

Gln Glu Leu Glu Ala Thr Phe Gln Arg Asn Arg Tyr Pro Asp Met Ser
            20              25              30

Thr Arg Glu Glu Ile Ala Val Trp Thr Asn Leu Thr Glu Ala Arg Val
        35              40              45

Arg Val Trp Phe Lys Asn Arg Arg Ala Lys Trp Arg Lys Arg Glu Arg
    50              55              60

Asn Gln Gln Ala Glu Leu Cys Lys Asn Gly Phe Gly Pro Gln Phe Asn
65              70              75              80

Gly Leu Met Gln Pro Tyr Asp Asp Met Tyr Pro Gly Tyr Ser Tyr Asn
            85              90              95

Asn Trp Ala Ala Lys Gly Leu Thr Ser Ala Ser Leu Ser Thr Lys Ser
            100             105             110

Phe Pro Phe Phe Asn Ser Met Asn Val Asn Pro Leu Ser Ser Gln Ser
        115             120             125

Met Phe Ser Pro Pro Asn Ser Ile Xaa Ser Met Ser Met Xaa Ser Ser
        130             135             140
```

4910

```
Met Val Pro Ser Ala Val Thr Gly Val Pro Gly Ser Ser Leu Asn Ser
145             150             155             160

Leu Asn Asn Leu Asn Asn Leu Ser Ser Pro Xaa Leu Asn Ser Ala Val
                165             170             175

Pro Thr Xaa Ala Cys Pro Tyr Ala Pro Pro Thr Ser Ser Val Cys Leu
            180             185             190

Xaa Gly His Val Xaa Ser Ser Leu Ala Ser Leu Arg Leu Lys Ala Lys
            195             200             205

Gln Xaa
    210
```

```
<210> 5562
<211> 101
<212> PRT
<213> Homo sapiens

<400> 5562
Thr Leu Thr Val Gln Val Val His Cys Asn Glu Val Thr His Ile Cys
  1           5               10              15

Trp Leu His Lys Leu Gln Val Leu Leu Ser Gln Tyr Gly Thr Leu Asn
            20              25              30

Cys Asp Val Val Gln Gln Leu Pro Ala Ser Ser Gln Leu Ile Arg Cys
        35              40              45

Glu Tyr Phe Gly Leu Asp Leu Gln Pro Asp Ala Val Leu Gln Pro Lys
    50              55              60

Lys Lys Val Glu Pro Met Ile Lys Asn Cys Ser Gln Asp Glu Pro Gly
 65             70              75              80

Lys Lys Ser Ala Lys Leu Pro Trp Arg Ser Ala Gly Thr Leu Val Met
            85              90              95

Thr Gly Ile Thr Pro
            100
```

```
<210> 5563
<211> 117
<212> PRT
<213> Homo sapiens
```

<220>
<221> SITE
<222> (94)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5563
Ile Pro Pro Ala Gln Leu Trp Gln Arg Leu Leu Ala Leu Val Ile Ser
 1   5   10   15

Ser Ile Ile Gln Ile His Tyr His Pro Asn Pro Ser Pro Ile Phe Gly
                20   25   30

Leu Gly Glu Lys Asn Met Asn Tyr Asp Asp Arg Thr Ser Ser Lys Pro
            35   40   45

Ser Pro Val Leu Ser Glu Tyr Pro Phe Trp Gly Cys Ile Pro Gln Lys
        50   55   60

Pro Ile Trp Gly Pro Ile Ser Met Tyr Thr Glu Leu Lys Phe Gln Val
65   70   75   80

Pro Leu Cys Ile Lys Arg Ser Gln Asn Phe Gly Gln Ala Xaa Gly Thr
                85   90   95

Leu Lys Ser His Gln Cys Asn Tyr Thr Leu Glu Ile Ile Asn Pro Ser
                100   105   110

His Asp Tyr Ile Ser
            115

<210> 5564
<211> 55
<212> PRT
<213> Homo sapiens

<400> 5564
Leu Pro Val Phe Glu Asp Val Gly Arg Val Cys Lys Tyr Ser Ala Phe
 1   5   10   15

Pro Leu Thr His Ala Gly Glu Asp Ala Ser Ser Leu Ala Pro Ala Val
                20   25   30

Arg Ala Gln Ile Ala Arg Val Lys Thr Ser Ser Leu Gly Arg Glu Val
            35   40   45

Cys Arg Gly Leu Glu Val Ile
        50   55

4912

<210> 5565
<211> 47
<212> PRT
<213> Homo sapiens

<400> 5565
Lys Leu Lys Glu Ile Lys Lys Leu Leu Glu Glu Asn Ala Gly Ile Asn
 1   5   10   15

Leu Tyr Asp Leu Arg Leu Gly Ser Gly Phe Leu Asp Met Thr Pro Lys
            20   25   30

Ala Lys Gln Gln Lys Lys Glu Asn Leu Lys Trp Met Ser Ser Glu
        35   40   45

<210> 5566
<211> 36
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (18)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (20)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5566
Gly Pro Val Leu His Gln Arg Ile Leu Ile Ser Ala Ser Gly Val Gly
 1   5   10   15

Glu Xaa Arg Xaa Ile Tyr Ile Gly Gln Asn Arg Gly Val Glu Gln Asp
            20   25   30

Tyr Ser Ile Phe
        35

<210> 5567
<211> 67
<212> PRT
<213> Homo sapiens

4913

<220>
<221> SITE
<222> (8)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5567
Pro Gly Ala Val Val Gly Val Xaa Arg Val Met Thr Trp Ser Gly Trp
 1   5   10   15

Ala Trp Ala Asp Val His Ile Val Cys Thr Leu Asp Pro Trp Pro Arg
             20   25   30

Arg Thr Gln Ile Leu Thr Ser Arg Asn Phe His Leu Met Asn Ile Met
         35   40   45

Arg Ile Gly Gly Lys Glu Asn Ser Leu Tyr Arg Ile Asn Pro Ser Phe
     50   55   60

Leu Gln Gly
 65

<210> 5568
<211> 83
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (46)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (49)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5568
Glu Asn Ala Phe Gln Asp Leu Ser Ser Thr His Pro Leu Ser Leu Pro
 1   5   10   15

Gln Pro His Ile Trp Gly His Asn Ser Thr Cys Val Lys Asp Asn Leu
             20   25   30

Leu Leu Phe Thr Glu Pro Pro Gly Ile Gln Asp Asn Lys Xaa Leu His
         35   40   45

Xaa Asp Gln Gln Val Ser Phe Ser Ala Pro Ser Phe Ile Thr Pro Phe
     50   55   60

4914

```
Phe Pro Ser Glu Val His Thr His Pro Tyr Met Ala Ala Val Gly Ile
 65              70              75              80

Ser Thr Gly
```

<210> 5569
<211> 58
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (39)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5569
```
Met Val Leu Ser Pro Ser Gly Val Ser Lys Cys Ile Arg Lys Gln Asn
 1           5              10              15

Ser Val Val Ser His Ser Ser Leu Cys Ala Arg Cys Leu Arg Arg Gly
            20              25              30

Ser Tyr Arg Ser Pro Arg Xaa Asn Gln Ala His Leu Ser Leu Gly Val
        35              40              45

Gly Gln Ser Gly Lys Ala Phe Trp Lys Met
    50              55
```

<210> 5570
<211> 109
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (90)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (97)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5570
```
Ser His Thr Thr Lys Asn Thr Asp Phe Thr Asp Leu Val Leu Glu Asn
 1           5              10              15
```

4915

```
His Tyr Thr Asn Ser Asn Asn Asn Ala Pro Gly Thr Lys Gly Glu Glu
            20                  25              30

Met Ser Ser Arg Val Gly Ile Leu Phe Lys Cys Leu Val Phe Asn Lys
            35                  40              45

Asn Asn Tyr Lys Thr Gln Ser Lys Thr Arg Lys Tyr Gly Pro Tyr Pro
        50              55              60

Gly Lys Asn Lys Gln Pro Ile Glu Ala Val Leu Glu Glu Val Asn Ile
65              70              75              80

Leu Asp Leu Leu Glu Asn Asp Phe Asn Xaa Ser Ile Ile Asn Met Phe
            85                  90              95

Xaa Lys Leu Lys Glu Ala Arg Cys Gly Gly Ser Arg Leu
            100                 105
```

<210> 5571
<211> 101
<212> PRT
<213> Homo sapiens

<400> 5571
```
Asn Asp Asn Lys Gly Phe Arg Thr Ile Thr Ala Ser Ala Pro Gly Pro
 1               5               10              15

Thr Pro Ser Ser Glu Arg Arg Ser Val Val Gly Asn Met Leu Ser Asn
            20              25              30

Ser Val Thr Cys Tyr Arg Gly Ile Phe Gly Glu Arg Lys Ser Gln Cys
            35              40              45

Gly Lys Leu His Cys Cys Leu Ile Leu Ile Ala Thr Ala Thr Ser Thr
        50              55              60

Phe Ser Asn His His Pro Asp Ser Val Ser Ser His Gln His Gln Gly
65              70              75              80

Glu Thr Leu Tyr His Gln Lys Asp Tyr Asn Leu Leu Lys Ala Gln Met
            85              90              95

Ile Ile Ser Ile Phe
            100
```

<210> 5572

4916

```
<211> 40
<212> PRT
<213> Homo sapiens

<400> 5572
Asp Arg His Ala Leu Gln Ile Phe Leu Tyr Lys Ser Gly Ser Leu Phe
1               5                   10                  15

Pro Ile Val Leu Thr Leu Arg Leu Ser Val Gly Leu Pro Ile Arg Phe
            20                  25                  30

Thr Ala Val Gln Val His Lys Met
            35                  40




<210> 5573
<211> 59
<212> PRT
<213> Homo sapiens

<400> 5573
Ser Trp Tyr Ala Cys Arg Tyr Arg Ser Gly Ile Pro Gly Ser Thr His
1               5                   10                  15

Ala Ser Ala Lys Ile Arg Thr Ala His Arg Arg Val Met Ile Leu Asn
            20                  25                  30

His Pro Asp Lys Gly Gly Ser Pro Tyr Val Ala Ala Lys Ile Asn Glu
            35                  40                  45

Ala Lys Asp Leu Leu Glu Thr Thr Thr Lys His
        50                  55




<210> 5574
<211> 51
<212> PRT
<213> Homo sapiens

<400> 5574
Ser Lys Asp Leu Val Phe Phe Thr Gln His Val Ser Arg Ile His Lys
1               5                   10                  15

Phe Tyr Cys Phe Ile Ala Val Ile Phe Ile Asp Val Tyr Phe Ile Val
            20                  25                  30

Gly Leu Tyr Asn Ile Leu Leu Arg Asn Thr Tyr Ile Tyr Asn Lys Leu
            35                  40                  45
```

4917

Tyr Ile Phe
      50

<210> 5575
<211> 60
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (47)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (48)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (51)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5575
Tyr Cys Ser Phe Ser Ser Phe Phe Ala Val Ala Ser Ser Ser Leu Val
    1   5   10   15

Lys Thr Leu Lys Lys Asn Thr Ala Leu Pro Trp Glu Ile Ile Thr Leu
            20   25   30

Pro Asn Thr Pro Leu Val Gly Asn Lys Arg Phe Tyr Gly Thr Xaa Xaa
            35   40   45

Lys Lys Xaa Ser Thr Cys Pro Phe Phe Leu Pro Val
    50   55   60

<210> 5576
<211> 72
<212> PRT
<213> Homo sapiens

<400> 5576
Ser Ser Gln Ile Lys Pro Pro Glu Ser Pro His Tyr Lys Ile Gln Ser
    1   5   10   15

Tyr His Ala Ser Leu Pro Ser Val Tyr Lys Ile Cys Pro Ser Leu Gln
            20   25   30

4918

```
Leu Gly Glu Thr Asp Leu Gly Gln Thr Pro Val Ser Leu Leu Gly Cys
        35              40              45

Leu Ala Ile Asn Phe Ser Leu Tyr Lys Thr Pro Val Leu Gln Cys Leu
    50              55              60

Val Phe Gln Cys Glu Pro Gly Asn
65                  70
```

<210> 5577
<211> 64
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (36)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (37)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5577
```
Val Leu Asn Lys Ser Leu Leu Tyr Glu Asn Lys Gln Tyr Phe Leu Tyr
 1               5               10              15

Leu Ser Phe Gly Cys Ile Phe Pro Tyr Phe Val Ile Ser Phe Phe Leu
            20              25              30

Thr Phe Tyr Xaa Xaa Ile Leu Thr Leu Phe Leu Ser Phe Ala Ser Val
        35              40              45

Phe Pro Arg Arg Val Leu Trp Leu Lys Cys Ile Thr Cys Lys Ile Glu
    50              55              60
```

<210> 5578
<211> 43
<212> PRT
<213> Homo sapiens

<220>

4919

```
<221> SITE
<222> (3)
<223> Xaa equals any of the naturally occurring L-amino acids


<400> 5578
Met Asp Xaa Gln Thr Asn Gly Thr Lys Leu Arg Ser Gln Ile Glu Ile
 1               5                  10                  15


Asn Gln Ser Val Asp Leu Leu Ile Tyr Gly Asn Val Phe Cys Glu Ile
            20                  25                  30


Tyr Gln Leu Met Gly Lys Arg Leu Phe Lys Thr
            35                  40




<210> 5579
<211> 143
<212> PRT
<213> Homo sapiens


<220>
<221> SITE
<222> (69)
<223> Xaa equals any of the naturally occurring L-amino acids


<220>
<221> SITE
<222> (70)
<223> Xaa equals any of the naturally occurring L-amino acids


<220>
<221> SITE
<222> (118)
<223> Xaa equals any of the naturally occurring L-amino acids


<220>
<221> SITE
<222> (123)
<223> Xaa equals any of the naturally occurring L-amino acids


<220>
<221> SITE
<222> (127)
<223> Xaa equals any of the naturally occurring L-amino acids


<220>
<221> SITE
<222> (129)
<223> Xaa equals any of the naturally occurring L-amino acids
```

4920

<220>
<221> SITE
<222> (130)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (132)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (133)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (135)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (136)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (137)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5579
Thr Ser Gly Ile Gly Thr Ser Pro Ser Leu Arg Ser Leu Gln Ser Leu
  1   5   10   15

Leu Gly Pro Ser Ser Lys Phe Arg His Ala Gln Gly Thr Val Leu His
             20   25   30

Arg Asp Ser His Ile Thr Asn Leu Lys Gly Leu Asn Leu Thr Thr Pro
             35   40   45

Gly Glu Ser Asp Gly Phe Cys Ala Asn Lys Leu Arg Val Ala Val Pro
     50   55   60

Leu Leu Ser Ser Xaa Xaa Gln Val Ala Val Leu Glu Leu Arg Lys Pro
 65   70   75   80

Gly Arg Leu Pro Asp Thr Ala Leu Pro Thr Leu Gln Asn Gly Ala Ala
             85   90   95

Val Thr Asp Leu Ala Trp Asp Pro Phe Asp Pro His Arg Leu Ala Val
            100   105   110

4921

Ala Gly Glu Asp Ala Xaa Ile Arg Leu Trp Xaa Val Pro Ala Xaa Gly
        115   120   125

Xaa Xaa Arg Xaa Xaa His Xaa Xaa Xaa Asn Cys Ala Tyr Lys Ala
    130   135   140

<210> 5580
<211> 67
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (33)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (44)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (61)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5580
Ser Asn Ser Leu Gln Val Trp Gly Trp Gln Ile Leu Ala Pro Leu Lys
  1   5   10   15

Trp Ile Pro His Ala His Ala Ser Leu Phe Phe Ser Val Ala Arg Gly
            20   25   30

Xaa Met Asp Lys Pro Lys Leu Gln Leu Lys Thr Xaa His Arg Pro Gly
        35   40   45

Thr Val Thr His Ala Phe Asn Ile Ser Thr Leu Gly Xaa Gln Gly Gly
    50   55   60

Arg Ile Thr
 65

<210> 5581
<211> 66
<212> PRT
<213> Homo sapiens

4922

```
<220>
<221> SITE
<222> (16)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (18)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5581
Gly Leu Pro Lys Ala Gln Gln Glu Gln Leu Leu Leu Ile Leu Gln Xaa
 1               5               10              15

Pro Xaa Pro Arg Pro Ala Phe His Pro Lys Pro His Leu Val Ser Met
            20              25              30

Ser Ile Ser Thr Val Trp Pro Ser Cys Asp Cys Ser Leu Ala Ala Thr
            35              40              45

Pro Ser Val Ile Pro His Ser Glu Ser Ser Phe Ser Gly Ser Leu Ala
        50              55              60

Phe Ser
 65
```

```
<210> 5582
<211> 53
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (33)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5582
Ser Leu Ile Ser Asp Ala Leu Arg Phe Leu Arg Ser Glu Met Ile Lys
 1               5               10              15

Leu Tyr Ser Leu Val Tyr Trp Tyr Phe Phe Thr Ser Ser Glu Ile Gly
            20              25              30

Xaa Met Leu Tyr Val Arg Arg Ala Phe Phe Lys Leu Cys Cys Phe Glu
            35              40              45

His Val Tyr Leu Phe
        50
```

4923

<210> 5583
<211> 58
<212> PRT
<213> Homo sapiens

<400> 5583
Gln Gly Lys Lys Ser Ala Val Cys Leu Val Phe Ile Phe Val Phe Thr
 1   5   10   15

Gln Val Gly Leu Leu Phe Glu Thr Phe Phe Leu Asn Lys Arg Ser Tyr
                20   25   30

Lys Val Phe Thr Phe Ser Pro Ser Lys Asn Pro Ile Phe Leu Glu Phe
                35   40   45

Gly Leu Ser Ile Ile Ser Gly Ile Lys Glu
        50   55

<210> 5584
<211> 78
<212> PRT
<213> Homo sapiens

<400> 5584
Thr Thr Val Asn Ile His Val Gly Gly Gly Gly Arg Leu Arg Pro Ala
 1   5   10   15

Lys Ala Gln Val Arg Leu Asn His Pro Ala Leu Leu Ala Ser Thr Gln
                20   25   30

Glu Ser Met Gly Leu His Arg Ala Gln Gly Leu Leu Met Pro Pro Ser
                35   40   45

Thr Cys Glu Pro Gly His Glu Ala Ser Leu Lys Gln Gly Phe Gln Pro
        50   55   60

Asp Ala Ile Asp Pro Gln Asn Leu Thr Trp Lys Ser Arg His
 65   70   75

<210> 5585
<211> 54
<212> PRT
<213> Homo sapiens

```
<220>
<221> SITE
<222> (26)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (40)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5585
Ile Ser Lys Gln Leu Tyr Phe Phe Ile Gln Ala Cys His Cys Glu Pro
 1               5              10               15

Val Leu Ile Val Ser Glu Leu Phe Val Xaa Pro Glu Phe Cys Leu Leu
            20              25              30

Ile Ser Phe Gln Leu His Ser Xaa Ser Phe Phe Asn Cys Val Gly Gly
            35              40              45

Lys Asn Asn Gly Arg Asn
    50


<210> 5586
<211> 89
<212> PRT
<213> Homo sapiens

<400> 5586
Leu Tyr Ser Phe Ser Ser Leu Leu Pro Leu Ser Pro Arg Trp Lys Lys
 1               5              10               15

Arg Thr Asn Val Glu Thr Pro Glu Gly Val Gln Leu Asp Gln Gly Asp
            20              25              30

Ile Arg His Leu Thr Val Phe Ser Val Cys Pro Ser Leu Tyr Ser Asn
            35              40              45

Val Arg Asn Gly Ser Val Phe Phe Phe Thr Phe Ile Gly Ser Ser Tyr
    50              55              60

Phe Ser Thr Leu Phe Leu Met Cys Ser Phe Phe Asn Trp Leu Val Phe
65              70              75               80

Pro Tyr Tyr Leu Gln Leu Tyr Gly Leu
            85
```

4925

<210> 5587
<211> 53
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (18)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (41)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5587
Gln Lys Asn Pro Leu Met Val Cys Phe Leu Tyr Trp Ala Thr Gln Trp
 1   5   10   15

Cys Xaa Lys Val Tyr Met Lys Pro Gln Cys Lys Gln Gly Leu Ser Ser
            20   25   30

Gln Asp Ile Asn Phe Asp Arg Lys Xaa Cys Val Phe Met Cys Val Cys
            35   40   45

Val Ser Gly Cys Asn
        50

<210> 5588
<211> 46
<212> PRT
<213> Homo sapiens

<400> 5588
Phe Cys Lys Tyr Asn Asn Asn Ser Asn Asn Thr Ile Leu Ser Phe Lys
 1   5   10   15

Lys Leu Pro Ile His Phe Ser Asn Leu Thr Val Ser Gly Gly Val Tyr
            20   25   30

Val Cys Leu Cys Phe His Leu Cys Asn Gly Cys Leu Ile Ile
            35   40   45

<210> 5589
<211> 58
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (32)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (53)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5589
Cys Leu Thr Met Ala Ser Glu His Val Lys Cys Thr Tyr Ile Leu Gln
 1   5   10   15

Pro Lys Thr Val Cys Ile Lys Leu Gln Pro Ser Ile Ile Lys Phe Xaa
                20   25   30

Val Gln Phe Gln Asp Gly Asn Gln Gly Phe Phe Phe Arg Asp Val Lys
                35   40   45

Lys Ser Pro Ser Xaa Ile Ile Leu Asn Leu
        50   55

<210> 5590
<211> 78
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (63)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (74)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5590
Gln Leu Asn Phe Met Asn Met Phe Val Lys Leu Leu Phe Tyr Ile Ser
 1   5   10   15

Cys Gln Ile Glu Lys Phe Ile Ser Ser Leu Leu Tyr Leu Trp Lys Tyr
                20   25   30

Lys Pro Phe Tyr Arg Lys Lys Ser Ser Lys Thr Ile Lys Trp Ile Ser
                35   40   45

4927

```
Ala Cys Phe Val Ser His Cys Leu Gln Ile Leu Trp Leu Ser Xaa Gly
     50              55              60

His Arg Ala Leu Val Gly Cys Thr Gly Xaa Pro Ile Phe Pro
 65              70          75
```

```
<210> 5591
<211> 42
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (16)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5591
Xaa Thr Leu Thr Lys Gly Asn Lys Ser Trp Ser Ser Thr Ala Val Xaa
 1               5               10              15

Thr Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn Ser Ala Arg
             20              25              30

Gly Thr Ala Lys Val Tyr Gly Met Val Cys
             35              40
```

```
<210> 5592
<211> 502
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (128)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5592
Pro Val Ala Ala Val Ser Gly Arg Ala Val Gly Gly Ser Arg Gly Gly
 1               5               10              15

Gly Arg Gly Gly Met Ala Ala Ala Ala Ala Gly Ala Gly Ser Gly Pro
             20              25              30
```

4928

```
Trp Ala Ala Gln Glu Lys Gln Phe Pro Pro Ala Leu Leu Ser Phe Phe
         35              40              45

Ile Tyr Asn Pro Arg Phe Gly Pro Arg Glu Gly Gln Glu Glu Asn Lys
     50          55              60

Ile Leu Phe Tyr His Pro Asn Glu Val Glu Lys Asn Glu Lys Ile Arg
65          70              75              80

Asn Val Gly Leu Cys Glu Ala Ile Val Gln Phe Thr Arg Thr Phe Ser
             85          90              95

Pro Ser Lys Pro Ala Lys Ser Leu His Thr Gln Lys Asn Arg Gln Phe
             100         105             110

Phe Asn Glu Pro Glu Glu Asn Phe Trp Met Val Met Val Val Arg Xaa
         115             120             125

Pro Ile Ile Glu Lys Gln Ser Lys Asp Gly Lys Pro Val Ile Glu Tyr
     130             135             140

Gln Glu Glu Glu Leu Leu Asp Lys Val Tyr Ser Ser Val Leu Arg Gln
145             150             155             160

Cys Tyr Ser Met Tyr Lys Leu Phe Asn Gly Thr Phe Leu Lys Ala Met
             165             170             175

Glu Asp Gly Gly Val Lys Leu Leu Lys Glu Arg Leu Glu Lys Phe Phe
         180             185             190

His Arg Tyr Leu Gln Thr Leu His Leu Gln Ser Cys Asp Leu Leu Asp
         195             200             205

Ile Phe Gly Gly Ile Ser Phe Phe Pro Leu Asp Lys Met Thr Tyr Leu
     210             215             220

Lys Ile Gln Ser Phe Ile Asn Arg Met Glu Glu Ser Leu Asn Ile Val
225             230             235             240

Lys Tyr Thr Ala Phe Leu Tyr Asn Asp Gln Leu Ile Trp Ser Gly Leu
             245             250             255

Glu Gln Asp Asp Met Arg Ile Leu Tyr Lys Tyr Leu Thr Thr Ser Leu
         260             265             270

Phe Pro Arg His Ile Glu Pro Glu Leu Ala Gly Arg Asp Ser Pro Ile
     275             280             285

Arg Ala Glu Met Pro Gly Asn Leu Gln His Tyr Gly Arg Phe Leu Thr
     290             295             300
```

4929

```
Gly Pro Leu Asn Leu Asn Asp Pro Asp Ala Lys Cys Arg Phe Pro Lys
305             310             315             320

Ile Phe Val Asn Thr Asp Asp Thr Tyr Glu Glu Leu His Leu Ile Val
                325             330             335

Tyr Lys Ala Met Ser Ala Ala Val Cys Phe Met Ile Asp Ala Ser Val
            340             345             350

His Pro Thr Leu Asp Phe Cys Arg Arg Leu Asp Ser Ile Val Gly Pro
            355             360             365

Gln Leu Thr Val Leu Ala Ser Asp Ile Cys Glu Gln Phe Asn Ile Asn
    370             375             380

Lys Arg Met Ser Gly Ser Glu Lys Glu Pro Gln Phe Lys Phe Ile Tyr
385             390             395             400

Phe Asn His Met Asn Leu Ala Glu Lys Ser Thr Val His Met Arg Lys
            405             410             415

Thr Pro Ser Val Ser Leu Thr Ser Val His Pro Asp Leu Met Lys Ile
            420             425             430

Leu Gly Asp Ile Asn Ser Asp Phe Thr Arg Val Asp Glu Asp Glu Glu
        435             440             445

Ile Ile Val Lys Ala Met Ser Asp Tyr Trp Val Val Gly Lys Lys Ser
    450             455             460

Asp Arg Arg Glu Leu Tyr Val Ile Leu Asn Gln Lys Asn Ala Asn Leu
465             470             475             480

Ile Glu Val Asn Glu Glu Val Lys Lys Leu Cys Ala Thr Gln Phe Asn
            485             490             495

Asn Ile Phe Phe Leu Asp
            500
```

<210> 5593
<211> 62
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (57)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5593
Asn Pro Gly Ile Leu Ser Pro Ser Asn Leu Lys Val Phe Lys Leu Ile
 1   5   10   15

Leu Phe Tyr Val Phe Leu Ala Val Tyr Val Leu Leu Lys Ser Leu Ser
            20   25   30

Phe Cys Val Lys Ile Cys Leu Ser Leu Leu His Phe Thr Ala Ser Lys
            35   40   45

Ile Lys Asn Thr Tyr Ile Leu Leu Xaa Ile Asp Ala Ser Lys
    50   55   60

<210> 5594
<211> 453
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (327)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5594
Ser Ile Phe Arg Val Ser Pro Gly Phe Arg Ile Ala Met Ile Ile Pro
 1   5   10   15

Ser Leu Glu Glu Leu Asp Ser Leu Lys Tyr Ser Asp Leu Gln Asn Leu
            20   25   30

Ala Lys Ser Leu Gly Leu Arg Ala Asn Leu Arg Ala Thr Lys Leu Leu
            35   40   45

Lys Ala Leu Lys Gly Tyr Ile Lys His Glu Ala Arg Lys Gly Asn Glu
    50   55   60

Asn Gln Asp Glu Ser Gln Thr Ser Ala Ser Ser Cys Asp Glu Thr Glu
65   70   75   80

Ile Gln Ile Ser Asn Gln Glu Glu Ala Glu Arg Gln Pro Leu Gly His
                85   90   95

Val Thr Lys Thr Arg Arg Arg Cys Lys Thr Val Arg Val Asp Pro Asp
                100   105   110

Ser Gln Gln Asn His Ser Glu Ile Lys Ile Ser Asn Pro Thr Glu Phe
                115   120   125

4931

Gln Asn His Glu Lys Gln Glu Ser Gln Asp Leu Arg Ala Thr Ala Lys
    130   135   140

Val Pro Ser Pro Pro Asp Glu His Gln Glu Ala Glu Asn Ala Val Ser
145   150   155   160

Ser Gly Asn Arg Asp Ser Lys Val Pro Ser Glu Gly Lys Lys Ser Leu
                165   170   175

Tyr Thr Asp Glu Ser Ser Lys Pro Gly Lys Asn Lys Arg Thr Ala Ile
        180   185   190

Thr Thr Pro Asn Phe Lys Lys Leu His Glu Ala His Phe Lys Glu Met
        195   200   205

Glu Ser Ile Asp Gln Tyr Ile Glu Arg Lys Lys Lys His Phe Glu Glu
    210   215   220

His Asn Ser Met Asn Glu Leu Lys Gln Gln Pro Ile Asn Lys Gly Gly
225   230   235   240

Val Arg Thr Pro Val Pro Pro Arg Gly Arg Leu Ser Val Ala Ser Thr
            245   250   255

Pro Ile Ser Gln Arg Arg Ser Gln Gly Arg Ser Cys Gly Pro Ala Ser
        260   265   270

Gln Ser Thr Leu Gly Leu Lys Gly Ser Leu Lys Arg Ser Ala Ile Ser
        275   280   285

Ala Ala Lys Thr Gly Val Arg Phe Ser Ala Ala Thr Lys Asp Asn Glu
    290   295   300

His Lys Arg Ser Leu Thr Lys Thr Pro Ala Arg Lys Ser Ala His Val
305   310   315   320

Thr Val Ser Gly Gly Thr Xaa Lys Gly Glu Ala Val Leu Gly Thr His
            325   330   335

Lys Leu Lys Thr Ile Thr Gly Asn Ser Ala Ala Val Ile Thr Pro Phe
        340   345   350

Lys Leu Thr Thr Glu Ala Thr Gln Thr Pro Val Ser Asn Lys Lys Pro
        355   360   365

Val Phe Asp Leu Lys Ala Ser Leu Ser Arg Pro Leu Asn Tyr Glu Pro
    370   375   380

His Lys Gly Lys Leu Lys Pro Trp Gly Gln Ser Lys Glu Asn Asn Tyr
385   390   395   400

4932

```
Leu Asn Gln His Val Asn Arg Ile Asn Phe Tyr Lys Lys Thr Tyr Lys
                405             410             415

Gln Pro His Leu Gln Thr Lys Glu Glu Gln Arg Lys Lys Arg Glu Gln
                420             425             430

Glu Arg Lys Glu Lys Lys Ala Lys Val Leu Gly Met Arg Arg Gly Leu
                435             440             445

Ile Leu Ala Glu Asp
        450
```

```
<210> 5595
<211> 64
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (64)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5595
Leu Leu Lys Lys Lys Ser Gly Glu Glu Arg Tyr Leu Ser Asn Leu Leu
 1               5               10              15

Asn Leu Tyr Lys Thr Leu His Cys Arg Gly Gly Ala Thr Pro Lys Tyr
                20              25              30  ·

Phe His Asp Leu His Gly Leu Ile Arg Phe Phe Phe Phe Tyr Thr Ile
            35              40              45

Leu Ala Thr Phe Ser Met Glu Lys Arg Gln Phe Thr Gln Phe Pro Xaa
        50              55              60
```

```
<210> 5596
<211> 307
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (147)
<223> Xaa equals any of the naturally occurring L-amino acids
```

4933

<220>
<221> SITE
<222> (300)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5596
His Thr Lys Lys Met Ser Met Leu Lys Pro Ser Gly Leu Lys Ala Pro
1   5   10   15

Thr Lys Ile Leu Lys Pro Gly Ser Thr Ala Leu Lys Thr Pro Thr Ala
            20   25   30

Val Val Ala Pro Val Glu Lys Thr Ile Ser Ser Glu Lys Ala Ser Ser
            35   40   45

Thr Pro Ser Ser Glu Thr Gln Glu Glu Phe Val Asp Asp Phe Arg Val
     50   55   60

Gly Glu Arg Val Trp Val Asn Gly Asn Lys Pro Gly Phe Ile Gln Phe
65   70   75   80

Leu Gly Glu Thr Gln Phe Ala Pro Gly Gln Trp Ala Gly Ile Val Leu
            85   90   95

Asp Glu Pro Ile Gly Lys Asn Asp Gly Ser Val Ala Gly Val Arg Tyr
            100   105   110

Phe Gln Cys Glu Pro Leu Lys Gly Ile Phe Thr Arg Pro Ser Lys Leu
            115   120   125

Thr Arg Lys Val Gln Ala Glu Asp Glu Ala Asn Gly Leu Gln Thr Thr
     130   135   140

Pro Ala Xaa Arg Ala Thr Ser Pro Leu Cys Thr Ser Thr Ala Ser Met
145   150   155   160

Val Ser Ser Ser Pro Ser Thr Pro Ser Asn Ile Pro Gln Lys Pro Ser
                 165   170   175

Gln Pro Ala Ala Lys Glu Pro Ser Ala Thr Pro Pro Ile Ser Asn Leu
            180   185   190

Thr Lys Thr Ala Ser Glu Ser Ile Ser Asn Leu Ser Glu Ala Gly Ser
            195   200   205

Ile Lys Lys Gly Glu Arg Glu Leu Lys Ile Gly Asp Arg Val Leu Val
     210   215   220

Gly Gly Thr Lys Ala Gly Val Val Arg Phe Leu Gly Glu Thr Asp Phe
225   230   235   240

4934

```
Ala Lys Gly Glu Trp Cys Gly Val Glu Leu Asp Glu Pro Leu Gly Lys
                245                 250                 255

Asn Asp Gly Ala Val Ala Gly Thr Arg Tyr Phe Gln Cys Gln Pro Lys
                260                 265                 270

Tyr Gly Leu Phe Ala Pro Val His Lys Val Thr Lys Ile Gly Phe Pro
            275                 280                 285

Ser Thr Thr Pro Ala Lys Ala Lys Ala Asn Ala Xaa Gly Glu Leu Trp
    290                 295                 300

Arg Pro Arg
305
```

```
<210> 5597
<211> 118
<212> PRT
<213> Homo sapiens

<400> 5597
Asn Gly Gly Gly Gln His Cys Cys Trp Arg Asn Arg Met Pro His Pro
    1               5                   10                  15

Trp Trp Val Leu His Thr Val Ser Gly Gly Gln Val Ser Cys Gln Pro
                20                  25                  30

Pro Pro Arg Asn Ser Pro Pro Ser Glu Ala Thr Lys Thr Ser Arg Val
            35                  40                  45

Ser Gln Ser Ala Ile Leu Arg Lys Val Leu Arg Gly Thr Asp Lys Val
    50                  55                  60

Arg Arg Glu Ser Cys Gly Leu Glu Ala Ala Arg Asn Lys Pro Ser Arg
65              70                  75                  80

Arg Arg Gly Ile Pro Ala Gly Gly Met Gly Gly Ala Gly Ala Trp Glu
                85                  90                  95

Met Arg Thr Gly Leu Val Met Val Cys Gly Arg Gln Leu Leu Arg Trp
            100                 105                 110

Arg Ala Gly Gly Arg Gly
        115
```

```
<210> 5598
```

4935

<211> 28
<212> PRT
<213> Homo sapiens

<400> 5598
Gln Tyr Phe Leu Lys Ile Ile Thr Tyr Ile Ile Val Thr Lys His Leu
 1   5   10   15

Cys Gln Ile Arg Thr Ser Ser Thr Glu Ala Ala Val
             20   25

<210> 5599
<211> 67
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (7)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (49)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5599
Lys Phe Trp Arg Leu Gly Xaa Leu Arg Ser Arg Ser Gln Gln Val Trp
 1   5   10   15

Cys Leu Ala Arg Ala His Ser Ser Leu Pro Ser Cys Cys Val Thr Ala
             20   25   30

Trp Trp Glu Gly Gln Ala Ser Ser His Gly Leu Phe Tyr Ser Gly Pro
         35   40   45

Xaa Ser Ile Gly Glu Gly Ser Ala Ile Ile Thr Ser Ser Pro Arg His
     50   55   60

Leu Gln Gly
 65

<210> 5600
<211> 50
<212> PRT
<213> Homo sapiens

4936

```
<220>
<221> SITE
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5600
Xaa Ser Val His Thr Leu Tyr Arg Asn Ser Leu Tyr Ser Ile Pro Val
  1               5               10                  15

Glu Gly His Phe Asn Pro His Ser Ile Pro Ser Val Leu Arg Thr Ser
                20               25                  30

Ser Lys Ala Ala Cys Ser Ser Ser Ser Val Val Ala Thr Leu Asp Leu
            35               40                  45

His Val
    50


<210> 5601
<211> 51
<212> PRT
<213> Homo sapiens

<400> 5601
Gly Asp Cys Gly Lys Gly Thr Val Tyr Lys Ala Val Gly Met Tyr Arg
  1               5               10                  15

Lys Ala Gln Gly Ile Gly Gln Gly Ala Gly Leu Phe Ile Val Ile Phe
                20               25                  30

Thr Ser Gly Leu Ile Leu Gly Gly Gly Gly Val Leu Pro Gly Thr Arg
            35               40                  45

Pro Tyr Gly
    50


<210> 5602
<211> 143
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (123)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
```

4937

```
<221> SITE
<222> (135)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5602
Lys Gln Phe Ala Ser Gly Asn Arg Thr Ala Gly Ala Val Phe Leu Gln
 1               5                  10                  15


Gln Gln Thr Lys His Arg Gly Arg Thr Gln Ala Ser Thr Glu Gln Ala
              20                  25                  30


Glu Thr Asp Asp Asn Met Asp Thr Lys Ser Ile Leu Glu Glu Leu Leu
          35                  40                  45


Leu Lys Arg Ser Gln Leu Leu Glu Met Cys Tyr Asp Val Cys Glu Gly
     50                  55                  60


Met Ala Phe Leu Glu Ser His Gln Phe Ile His Arg Asp Leu Ala Ala
 65                  70                  75                  80


Arg Asn Cys Leu Val Asp Arg Asp Leu Cys Val Lys Val Ser Asp Phe
              85                  90                  95


Gly Met Thr Arg Tyr Val Leu Asp Asp Gln Tyr Val Ser Ser Val Gly
              100                 105                 110


Thr Lys Phe Pro Val Lys Trp Ser Ala Pro Xaa Val Phe His Tyr Phe
              115                 120                 125


Lys Tyr Ser Ser Lys Ser Xaa Arg Met Gly Ile Trp Asp Pro Asp
              130                 135                 140



<210> 5603
<211> 43
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (16)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5603
Asn Phe Val Phe Leu Val Glu Lys Gly Phe Leu His Val Gly Gln Xaa
 1               5                  10                  15


Gly Leu Glu Leu Pro Ile Ser Gly Asp Pro Pro Ala Ser Gln Ser Ala
              20                  25                  30
```

```
Gly Ile Thr Gly Val Ser Thr Thr Pro Arg Leu
        35                  40
```

<210> 5604
<211> 83
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (11)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (80)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5604
```
Val Gly Val Ser Ser Gln Leu Lys Lys Lys Xaa Asn Glu Ile Gly Ser
 1               5               10                  15

Arg Asn Glu Lys Gly Glu Arg Glu Arg Lys Lys Lys Met Asp Val Gly
            20              25                  30

Asn Phe Val Ala Cys Ser Leu Trp Ile Leu Gln Asn Tyr His Cys Gly
            35              40                  45

Tyr Cys Leu Thr Trp Leu Leu Leu Ala Met Lys Asn Gln Glu His Phe
        50              55                  60

His Tyr His Phe Leu Thr Ile His Gln Pro Gln Phe Leu Gly Ile Xaa
 65                  70                  75                  80

Leu Lys Phe
```

<210> 5605
<211> 429
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (28)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5605

Val	Ser	Gln	Ala	Thr	Asp	Val	Glu	Val	Gly	Thr	Asp	Leu	Val	Pro	Ser
1				5					10					15	

| Val | Thr | Val | Lys | Val | Thr | Leu | Gln | Asn | Arg | Val | Xaa | Leu | Gln | Lys | Ala |
| | | | 20 | | | | | 25 | | | | | 30 | | |

Lys Leu Ser Val Tyr Val Gln Pro Pro Leu Glu Leu Thr Cys Asp Gln
            35   40   45

Phe Thr Phe Glu Phe Met Asn Arg Asn Pro Asp Gly Ile Pro Arg Val
      50   55   60

Ile Gln Cys Lys Phe Arg Leu Pro Leu Lys Leu Ile Cys Leu Pro Gly
65   70   75   80

Gln Pro Ser Lys Thr Ala Ser His Lys Ile Thr Ile Asp Thr Asn Lys
                85   90   95

Ser Pro Val Ser Leu Leu Ser Leu Phe Pro Gly Phe Ala Ser Gln Ser
            100   105   110

Asp Asp Asp Gln Val Asn Val Met Gly Phe His Phe Leu Gly Gly Ala
      115   120   125

Arg Ile Thr Val Leu Ala Ser Lys Thr Ser Gln Arg Tyr Arg Ile Gln
      130   135   140

Ser Glu Gln Phe Glu Asp Leu Trp Leu Ile Thr Asn Glu Leu Ile Leu
145   150   155   160

Arg Leu Gln Glu Tyr Phe Glu Lys Gln Gly Val Lys Asp Phe Ala Cys
            165   170   175

Ser Phe Ser Gly Ser Ile Pro Leu Gln Glu Tyr Phe Glu Leu Ile Asp
            180   185   190

His His Phe Glu Leu Arg Ile Asn Gly Glu Lys Leu Glu Glu Leu Leu
      195   200   205

Ser Glu Arg Ala Val Gln Phe Arg Ala Ile Gln Arg Arg Leu Leu Ala
      210   215   220

Arg Phe Lys Asp Lys Thr Pro Ala Pro Leu Gln His Leu Asp Thr Leu
225   230   235   240

Leu Asp Gly Thr Tyr Lys Gln Val Ile Ala Leu Ala Asp Ala Val Glu
            245   250   255

Glu Asn Gln Gly Asn Leu Phe Gln Ser Phe Thr Arg Leu Lys Ser Ala
            260   265   270

4940

Thr His Leu Val Ile Leu Leu Ile Ala Leu Trp Gln Lys Leu Ser Ala
        275   280   285

Asp Gln Val Ala Ile Leu Glu Ala Ala Phe Leu Pro Leu Gln Glu Asp
        290   295   300

Thr Gln Glu Leu Gly Trp Glu Glu Thr Val Asp Ala Ala Ile Ser His
305   310   315   320

Leu Leu Lys Thr Cys Leu Ser Lys Ser Ser Lys Glu Gln Ala Leu Asn
                325   330   335

Leu Asn Ser Gln Leu Asn Ile Pro Lys Asp Thr Ser Gln Leu Lys Lys
                340   345   350

His Ile Thr Leu Leu Cys Asp Arg Leu Ser Lys Gly Gly Arg Leu Cys
        355   360   365

Leu Ser Thr Asp Ala Ala Ala Pro Gln Thr Met Val Met Pro Gly Gly
        370   375   380

Cys Thr Thr Ile Pro Glu Ser Asp Leu Glu Glu Arg Ser Val Glu Gln
385   390   395   400

Asp Ser Thr Glu Leu Phe Thr Asn His Arg His Leu Thr Ala Glu Thr
                405   410   415

Pro Arg Pro Glu Val Ser Pro Leu Gln Gly Val Ser Glu
                420   425

<210> 5606
<211> 59
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (42)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5606
Asn Ile Thr Thr Met Asn Pro Thr Ser His Cys Lys Asp Cys Val Leu
  1   5   10   15

Tyr Phe Asp Leu Ser Ser Gly Ile Gly Asp Thr Leu Phe Gly His His
                20   25   30

Glu Gly Thr Met Gln Asn Pro Ser Phe Xaa Asn Ser Phe Leu Ser Ser

4941

```
                 35                    40                    45

Ile Glu Asp Pro Lys Asn Gln Thr Phe Arg Val
        50                    55
```

<210> 5607
<211> 97
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (96)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5607
```
Lys Pro Gly His Thr Ala Gly Asp Glu Trp Lys Ala Ser Glu Thr Ser
  1                 5                    10                    15

Trp Val Phe Thr Ala Ile Pro Arg Arg Ser His Tyr His Leu Ser Cys
               20                    25                    30

Val Ser Cys Glu Ile Ser Ser Ser Ile Arg Phe Ser Arg Ser Thr Asn
               35                    40                    45

Pro Phe Gly Thr Val Cys Glu Gly Ser Lys Leu Arg Ile Ser Tyr Glu
        50                    55                    60

Asn Leu Ile Pro Asp Asp Leu Leu Leu Ser Pro Thr Thr Pro Arg Trp
 65                    70                    75                    80

Asp His Leu Val Ala Gly Lys Gln Ala Gln Ala Pro Thr Asp Ser Xaa
                  85                    90                    95

Leu
```

<210> 5608
<211> 52
<212> PRT
<213> Homo sapiens

<400> 5608
```
Gln Arg Lys Arg Glu Glu Glu Gly Arg Leu Asp Thr Glu Arg Cys Leu
  1                 5                    10                    15

Ala Arg Gly Ser Gln Ser Gly Val Gln Pro Leu Gly Gly Pro Thr Pro
```

4942

```
            20                  25                  30

Gly Glu Asp His Leu Pro Thr Ser Ser Ile Pro Thr Leu Pro Ala Pro
         35                  40                  45

His Pro Ser Cys
        50




<210> 5609
<211> 49
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (9)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5609
Ala Xaa Thr Asn Phe Thr Gln Glu Xaa Ala Met Thr Met Ile Thr Pro
 1               5                  10                  15

Ser Ser Asn Thr Thr His Tyr Arg Glu Ser Trp Tyr Ala Cys Arg Tyr
             20                  25                  30

Arg Ser Gly Ile Pro Gly Ser Thr His Ala Ser Gly Arg Gln Arg Leu
         35                  40                  45

Gln




<210> 5610
<211> 42
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (21)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
```

```
<221> SITE
<222> (22)
<223> Xaa equals any of the naturally occurring L-amino acids


<220>
<221> SITE
<222> (31)
<223> Xaa equals any of the naturally occurring L-amino acids


<400> 5610
Leu Ala Lys Glu Val Lys Pro Arg Gly Phe Pro Gly Gly Lys Ile Phe
 1               5                  10                 15


Pro Pro Gly Gly Xaa Xaa Gly Asn Pro Pro Thr Gly Pro Val Xaa Pro
            20                  25                  30


Gly Val Pro Lys Phe Lys Thr Pro Lys Phe
            35                  40




<210> 5611
<211> 85
<212> PRT
<213> Homo sapiens


<220>
<221> SITE
<222> (46)
<223> Xaa equals any of the naturally occurring L-amino acids


<220>
<221> SITE
<222> (55)
<223> Xaa equals any of the naturally occurring L-amino acids


<220>
<221> SITE
<222> (63)
<223> Xaa equals any of the naturally occurring L-amino acids


<220>
<221> SITE
<222> (80)
<223> Xaa equals any of the naturally occurring L-amino acids


<400> 5611
His Ala Gln Gly Glu Ala Arg Val Gln Pro Leu Arg Gly Leu Leu Gln
 1               5                  10                 15


Glu Arg Gly Gly Gln Gln Pro Trp Gly Arg Gly Arg Pro Arg Gly Gly
```

4944

```
                20                      25                      30

Gly His Gln Gly Thr Ala Arg Trp Ala Ser Ser Cys Pro Xaa Ser Trp
        35                  40                  45

Ala Arg Ser Lys Ala Arg Xaa Asp Leu Leu Ala Trp Gln Pro Xaa Pro
        50                  55                  60

Gly Ala Arg Ile Ala Ala Pro Val Ile Gln Asn Pro Ala Glu Gln Xaa
65                  70                  75                  80

Pro Cys Ser Cys Ala
                85
```

```
<210> 5612
<211> 91
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (51)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (56)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (91)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5612
Thr Lys Phe His Phe Val Cys Val Cys Val His Val Cys Val Ser Thr
  1               5                  10                  15

Gly Gly Leu Cys Phe Ile Leu Cys Phe Phe Asp Ser Cys Ala Thr Ser
            20                  25                  30

Leu Pro His Ser Pro Lys Lys Asp Lys Thr Lys Leu Ser Thr Asn Pro
            35                  40                  45

His Ile Xaa Val Cys Leu Ser Xaa Thr Leu Thr Thr Val Pro Ile Ile
        50                  55                  60

Met Ser Ser Tyr Ile Pro Cys Lys Ile Trp Val Val Ser Tyr Thr Ala
65                  70                  75                  80
```

4945

Gly Leu His Leu Thr Leu Glu Gly Lys Lys Xaa
                    85   90

<210> 5613
<211> 79
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (15)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (34)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (50)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (56)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (61)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5613
Asn Ser Glu Lys Glu Gln Trp Leu Cys Ser Phe Leu Ala Asn Xaa Leu
 1   5   10   15

Gln Lys Glu Ser Thr Trp Thr Ser Val Pro Gly Val Glu Ile Leu Arg
            20   25   30

Gly Xaa Glu Leu Val Gly Glu His Phe Pro Thr Trp Leu Arg Gln Gly
        35   40   45

Phe Xaa Trp Gly Arg Gly Arg Xaa Tyr Ser Gly Gly Xaa Ser Pro Pro
        50   55   60

Arg Arg His His Thr Phe Pro Pro Gly Val Pro Gln Gly Pro Arg
 65   70   75

4946

<210> 5614
<211> 219
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (215)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5614
Leu Ser Phe Phe Ser Leu Thr Ala Ser Tyr Ser Pro Ile Gln Pro His
 1   5   10   15

Ser Leu Ile Lys His Gln Gln Ile Pro Leu His Ser Pro Pro Ser Lys
            20   25   30

Val Ser His His Gln Leu Ile Leu Gln Gln Gln Gln Gln Ile Gln
         35   40   45

Pro Ile Thr Leu Gln Asn Ser Thr Gln Asp Pro Pro Pro Ser Gln His
      50   55   60

Cys Ile Pro Leu Gln Asn His Gly Leu Pro Pro Ala Pro Ser Asn Ala
 65   70   75   80

Gln Ser Gln His Cys Ser Pro Ile Gln Ser His Pro Ser Pro Leu Thr
               85   90   95

Val Ser Pro Asn Gln Ser Gln Ser Ala Gln Gln Ser Val Val Val Ser
               100   105   110

Pro Pro Pro Pro His Ser Pro Ser Gln Ser Pro Thr Ile Ile Ile His
         115   120   125

Pro Gln Ala Leu Ile Gln Pro His Pro Leu Val Ser Ser Ala Leu Gln
      130   135   140

Pro Gly Pro Asn Leu Gln Gln Ser Thr Ala Asn Gln Val Gln Ala Thr
145   150   155   160

Ala Gln Leu Asn Leu Pro Ser His Leu Pro Leu Pro Ala Ser Pro Val
               165   170   175

Val His Ile Gly Pro Val Gln Gln Ser Ala Leu Val Ser Pro Gly Gln
            180   185   190

Gln Ile Val Ser Pro Ser His Gln Gln Tyr Ser Ser Leu Gln Ser Ser

4947

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              195                    200                    205

Pro Ile Pro Ile Ala Ser Xaa Pro Gln Met Ser
      210            .       215
```

```
<210> 5615
<211> 26
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (6)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (26)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5615
Pro Ser Arg Leu Leu Xaa Pro Leu Ile Arg Val Ser Ile Lys Leu Lys
  1               5               10              15

Leu Arg Pro Asp Arg Arg Thr Ala Ser Xaa
            20              25   .
```

```
<210> 5616
<211> 99
<212> PRT
<213> Homo sapiens

<400> 5616
Tyr Arg Ala Thr Phe Leu Asn Val Ser Asp Val Val Arg Pro Ser His
  1               5               10              15

Thr Ser Ala Val Ser Phe Ser Ala Ser Leu Gly Leu Ala Phe Cys Ser
            20              25              30

Ser Val Pro His Thr Met Ile Pro Leu Gly Gln Ala Phe Ala Cys Ala
            35              40              45

Val Ser Pro Val Lys Leu Thr Ser Leu Pro Leu Trp Ala Gln Ile Pro
        50              55              60

Ala Gln Val Ala Gly Val Arg Ser Ser Arg Gly Gly Glu Ser Ser Trp
 65              70              75              80
```

4948

Arg Ala Gly Ser Ile Val Arg Arg Lys Gly His Gly Gln Asn Pro Gly
                85   90   95

Glu His Arg

<210> 5617
<211> 67
<212> PRT
<213> Homo sapiens

<400> 5617
Gln Val Leu Cys Lys Cys Leu Pro Ser Leu Gln Val Pro Ala Thr Cys
1   5   10   15

Pro Lys Lys Arg His Ile Lys Lys Leu Ser Asp Thr Ser Pro Asp Phe
            20   25   30

Ile Tyr Phe Ile Tyr Leu Thr Thr Tyr Met Leu Val Cys Arg Asn Tyr
            35   40   45

Ile Leu Asp Leu Phe Pro Tyr Leu Leu Arg Thr Val Leu Leu Leu Lys
    50   55   60

Ala Ala Thr
65

<210> 5618
<211> 81
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (13.)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (24)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5618
Ser Cys Gln Val Ser Pro Ala Gly Arg Lys His Cys Xaa Pro Ser Ala
1   5   10   15

4949

Gly Ser Ser Leu Glu Ser Gln Xaa Gly Lys Arg Ser Trp Pro Leu Pro
            20   25   30

Pro Ala Asp Arg Ser Ser Ala Ser Met Arg Phe Val Val Val Thr Phe
            35   40   45

Ser Val Thr Ile Lys Gly Asp Phe Phe Leu Asn Ile Lys Leu Phe Phe
        50   55   60

Glu Gln Gly Met Asn Met Ser Phe Cys Asn Val Thr Glu Val Glu Phe
    65   70   75   80

Lys

<210> 5619
<211> 48
<212> PRT
<213> Homo sapiens

<400> 5619
Ala Leu Leu Val His Glu Asp Lys Leu Pro Glu Gly Phe Gly Cys Met
    1   5   10   15

Leu His Ser Val Thr Ser Ser Tyr Leu Lys Ile Ser Val Leu Tyr Leu
            20   25   30

Ala Leu Tyr Leu Lys Val Asn Thr Asn Leu Thr Tyr Leu Lys Ile Phe
            35   40   45

<210> 5620
<211> 107
<212> PRT
<213> Homo sapiens

<400> 5620
Cys Leu Ser Pro Gly Thr Trp Ala Asp Leu Val Pro Gly Glu Leu Ser
    1   5   10   15

Pro Leu Leu Ala Lys Glu Leu Leu Ser Ser Gln Thr Leu Leu Leu Arg
            20   25   30

Cys Pro Pro Cys Met Val Phe Glu Val Phe Glu Val Phe Leu Glu Phe
        35   40   45

4950

Thr Cys Trp Arg Leu Gln Leu Thr Glu Arg Pro Gly Leu Asp Cys Ala
    50   55   60

Ser Cys Ser Ser Arg Thr Lys Asp Ile Ser Trp Lys Cys Met Arg Pro
65   70   75   80

Arg Ile Cys Asp Arg Asn Gly Ser Ser His Val Arg Tyr Ala Pro Trp
                85   90   95

Lys Asp Leu Glu Ile Arg Asn Leu Ser Glu His
            100   105

<210> 5621
<211> 52
<212> PRT
<213> Homo sapiens

<400> 5621
Phe Tyr Val Arg Tyr Tyr Arg Tyr Phe Glu Met Val Thr Asp Ser Phe
 1   5   10   15

Glu Ile Leu Ser Ser Leu Glu Cys Asp Ala Phe Asn Ile Ala Ser Gly
            20   25   30

Phe Arg Trp Arg Asn Thr Met Leu Leu Ser Leu Lys Ile Asn Ser Ile
            35   40   45

Ser Pro Ile Val
        50

<210> 5622
<211> 44
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (38)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5622
Ser Ser Cys Met Asn Gln Gly Ser His Ser Gly Phe Gln Gly Leu Asp
 1   5   10   15

Phe Leu Val Cys Lys Arg Asp Phe Thr Met His Leu Ala Thr Ser Pro
            20   25   30

```
Ser Ser Leu Gly Asn Xaa Lys Thr Lys Cys Arg Gln
        35                  40
```

```
<210> 5623
<211> 101
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (62)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (83)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5623
Gln Gly Asn Pro Lys Leu Gln Lys Leu Lys Gly Gly Glu Glu Gly Pro
 1               5                  10                  15

Val Leu Met Ala Glu Ala Val Lys Lys Val Asn Arg Gly Asn Gly Lys
            20                  25                  30

Thr Ser Ser Arg Ile Leu Leu Leu Thr Lys Gly His Val Ile Leu Thr
        35                  40                  45

Asp Thr Lys Lys Ser Gln Ala Lys Ile Val Ile Gly Leu Xaa Asn Val
    50                  55                  60

Ala Gly Val Ser Val Thr Ser Leu Lys Asp Gly Leu Phe Ser Leu His
65                  70                  75                  80

Leu Ser Xaa Met Ser Ser Val Gly Ser Lys Gly Asp Phe Leu Leu Val
            85                  90                  95

Lys Arg Ala Cys Asp
            100
```

```
<210> 5624
<211> 73
<212> PRT
<213> Homo sapiens

<400> 5624
```

4952

```
Asn Arg Ser Val Gln Ser Tyr Phe Phe Leu Thr Leu Asn Phe Pro Ser
1               5               10              15

Arg Glu Tyr Thr Ile Trp Leu Arg Gly Arg Gly Ser Pro Glu Glu Arg
            20              25              30

Gly Phe Ala Leu Arg Gly Arg Ala Ser Leu Asp Phe Ala Ala Ser Asn
        35              40              45

Phe Ser Arg Gly Val Glu Gly Gly Ala Leu Gly Gly Pro His Ser Leu
    50              55              60

Ser Gly Val Pro Ala Arg Val Ser Phe
65              70
```

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<210> 5625
<211> 146
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (59)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5625
Ser Cys Glu Asp Gly Lys Val Glu Gln Glu Ala Leu Ser Ala Phe Leu
1               5               10              15

His Asp Val Asn Glu Glu Ile Gln Cys Gln Ile Glu Val Asp Gly Thr
            20              25              30

Pro Arg Gly Arg Gly Ala Gly Val Gly Ser Asp Val Pro Ser Pro Pro
        35              40              45

Ser Pro Gly Pro Thr Asp Cys Gly His Glu Xaa Ala Gly Trp Cys Tyr
    50              55              60

Asp Ser Arg Leu Gln His Arg Ala Leu Pro Ser Ser Pro Gln Trp Asp
65              70              75              80

Ile Lys Thr Thr Leu Gly Pro Phe Val Gln Gly Thr Thr Ser Ser Ile
            85              90              95

Asp Gly Glu Asn Lys Leu Ser Arg Ala Thr Thr Gly Trp Arg Glu Ala
            100             105             110

Gly Thr Ile Val Phe Leu Arg Ser Val Thr Ala Asp Pro Thr Asp His
            115             120             125
```

4953

```
Ala Cys Trp Tyr Thr Leu Val Pro Asp Pro Ala Cys Arg Thr Ser Ala
    130                 135             140

Val Cys
145
```

```
<210> 5626
<211> 59
<212> PRT
<213> Homo sapiens

<400> 5626
Gly Gly Asn Ser Gly Asn Gly Pro Ala Lys Ile Tyr Gly Ala Ala Ala
 1               5               10              15

Ala Asp Asp Thr Ala Asn Ile Thr Gln Gln Pro Asp Ala Asn Val Asp
             20              25              30

Ile Asp Trp Gln Gly Gln Ala Phe Arg Gly Asn Asn Gln Gln Val Leu
         35              40              45

Leu Glu Gln Leu Glu Asn Gln Gly Ile Arg Ile
     50              55
```

```
<210> 5627
<211> 48
<212> PRT
<213> Homo sapiens

<400> 5627
Lys Ala Lys Gln Cys Lys Asn Pro Leu Gln Lys Ala Arg Leu Pro Pro
 1               5               10              15

Ser Thr Glu Pro Gln Leu Leu Cys Ser Pro Leu Gln Arg Gln Trp Leu
             20              25              30

Leu Leu Val Thr Cys Ile Ser Cys Trp Ile Cys Val Phe Tyr Gln Gly
         35              40              45
```

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<210> 5628
<211> 39
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4954

```
<212> PRT
<213> Homo sapiens

<400> 5628
Asp Ser Val Leu Ser Leu Ile Ser His Asn Gln Leu Phe Leu Leu Val
1               5               10              15

Pro Asn Ser Cys Ser Pro Gly Asp Pro Leu Val Leu Glu Arg Pro Pro
            20              25              30

Pro Arg Trp Ser Ser Ser Phe
        35




<210> 5629
<211> 26
<212> PRT
<213> Homo sapiens

<400> 5629
Trp His Met Pro Val Ile Pro Ala Leu Trp Glu Ser Glu Ala Gly Gly
1               5               10              15

Ser Leu Glu Ser Arg Ser Leu Arg Leu Pro
            20              25




<210> 5630
<211> 87
<212> PRT
<213> Homo sapiens

<400> 5630
Ile Ala Asn Ser Lys Gly Cys Thr Ser Val Ile Ile Asn Lys Asn Leu
1               5               10              15

Ala Asn Ser Cys Gly Thr Gly Tyr Ser His Leu Ile Cys Leu Val Pro
            20              25              30

Lys Ile Ala Cys Pro Phe Pro Asn Ser Ser Gln Leu Asp Cys Ala Thr
        35              40              45

Lys Thr Asp Lys Tyr Leu Leu Gly Asn His Asn His Gly Asp Leu Leu
        50              55              60

Pro Gln Leu Gly Pro Trp Tyr Ile Phe Val Cys Ile Leu Trp Cys Tyr
65              70              75              80

Met Gln Ile Asn Thr Phe Asn
```

4955

85

```
<210> 5631
<211> 93
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (87)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5631
Gln Glu Thr Ser Lys Met Glu Thr Leu Ser Phe Pro Arg Tyr Asn Val
 1               5                  10                  15

Ala Glu Ile Val Ile His Ile Arg Asn Lys Ile Leu Thr Gly Ala Asp
             20                  25                  30

Gly Lys Asn Leu Thr Lys Asn Asp Leu Tyr Pro Asn Pro Lys Pro Glu
         35                  40                  45

Val Leu His Met Ile Tyr Met Arg Ala Leu Gln Ile Val Tyr Gly Ile
     50                  55                  60

Arg Leu Glu His Phe Tyr Met Met Pro Val Asn Ser Glu Val Met Tyr
 65                  70                  75                  80

Pro His Leu Met Gly Arg Xaa Leu Thr Ile Gln Ala Ile
                 85                  90
```

```
<210> 5632
<211> 114
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (97)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (98)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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```
<221> SITE
<222> (99)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (102)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (104)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (111)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5632
Thr Val Leu Gly His Val Leu Tyr Leu Cys Leu Ala Pro His Leu Phe
 1               5                   10                  15

Leu Asp Pro Leu Val Ile Cys Met Thr Thr Phe Lys Asn Phe Asn Phe
            20                  25                  30

Val Cys Cys Leu Arg His Cys Cys Glu His Pro His Gly Val Arg His
        35                  40                  45

Pro Pro Thr Leu Ala Pro Ala Ser Thr Leu Leu His Leu Thr Ser Val
        50                  55                  60

Tyr Pro Ala Ala Leu Leu Leu Leu Leu Val Cys Val Asn Glu Asp Asn
65                  70                  75                  80

Leu Val Ala Val Thr Tyr Lys Cys Phe Ile Trp His His Pro Ser Val
                85                  90                  95

Xaa Xaa Xaa Trp Trp Xaa Glu Xaa Thr Leu Ala Pro Thr Pro Xaa His
            100             105                 110

Thr Ser


<210> 5633
<211> 210
<212> PRT
<213> Homo sapiens
```

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<220>
<221> SITE
<222> (145)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (159)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (165)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (179)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (182)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (183)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (187)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (190)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5633
Lys Glu Asn Lys Val Val Leu Ile Val Gly Glu Thr Gly Ser Gly Lys
 1               5                   10                  15

Thr Thr Gln Ile Pro Gln Phe Leu Leu Asp Asp Cys Phe Lys Asn Gly
            20                  25                  30

Ile Pro Cys Arg Ile Phe Cys Thr Gln Pro Arg Arg Leu Ala Ala Ile
            35                  40                  45

Ala Val Ala Glu Arg Val Ala Ala Glu Arg Arg Glu Arg Ile Gly Gln
```

4958

```
          50                    55                    60

Thr Ile Gly Tyr Gln Ile Arg Leu Glu Ser Arg Val Ser Pro Lys Thr
 65                    70                    75                    80

Leu Leu Thr Phe Cys Thr Asn Gly Val Leu Leu Arg Thr Leu Met Ala
                    85                    90                    95

Gly Asp Ser Thr Leu Ser Thr Val Thr His Val Ile Val Asp Glu Val
                   100                   105                   110

His Glu Arg Asp Arg Phe Ser Asp Phe Leu Leu Thr Lys Leu Arg Asp
                   115                   120                   125

Leu Leu Gln Lys His Pro Thr Leu Lys Leu Ile Leu Ser Ser Ala Ala
                   130                   135                   140

Xaa Asp Val Asn Leu Phe Ile Arg Tyr Phe Gly Ser Cys Pro Xaa Ile
145                   150                   155                   160

Tyr Ile Gln Gly Xaa Pro Phe Glu Val Lys Glu Met Phe Leu Glu Asp
                   165                   170                   175

Ile Leu Xaa Thr Thr Xaa Xaa Thr Asn Lys Xaa Met Leu Xaa Tyr Lys
                   180                   185                   190

Lys Glu Lys Gln Gln Asp Glu Lys Thr Leu Ser Lys Lys Lys Lys Lys
                   195                   200                   205

Lys Lys
210
```

```
<210> 5634
<211> 63
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (7)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
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4959

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<222> (8)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (12)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (16)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5634
Xaa Val Arg Tyr Ile Ala Xaa Xaa Ser Ala Ala Xaa Arg Lys Arg Xaa
 1               5               10              15

Val Cys Ser Glu Trp Lys Phe Ala Ala Cys Val Val Asp Arg Leu Cys
            20              25              30

Leu Met Ala Phe Ser Val Phe Thr Ile Ile Cys Thr Ile Gly Ile Leu
            35              40              45

Met Ser Ala Pro Asn Phe Val Glu Ala Val Ser Lys Asp Phe Ala
    50              55              60



<210> 5635
<211> 88
<212> PRT
<213> Homo sapiens

<400> 5635
Pro Ser Thr Leu Asp Cys Ser Leu Thr Glu Cys Leu Ser Leu Ser Ile
 1               5               10              15

Leu Cys Pro Phe Tyr Ser Phe Lys Lys Thr Val Ala Val Thr Lys Glu
            20              25              30

Leu Phe Leu Ile Pro Arg Leu Cys Gln Thr Lys Val Ser Ser Leu Arg
            35              40              45

Leu Leu Asp Phe Asp Ile Lys Tyr Val Phe Ser Ser Ser Asn Phe Ile
    50              55              60

Tyr Val Tyr Ser Ser Ser Asp Pro Glu Ile Tyr Phe Leu Leu Ile Ile
65              70              75                  80

Leu Thr Trp Ile Pro Gln Ala Ile
            85
```

<210> 5636
<211> 131
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (3)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5636
Pro Gly Xaa Pro Gly Arg Pro Thr Arg Pro Ala Arg Cys Gln Gln Pro
 1   5   10   15

Gly Ala Arg Ser Gln Glu Gln Ser Ala Ser Met Asn Leu Gly Val Ser
            20   25   30

Met Leu Arg Ile Leu Phe Leu Leu Asp Val Gly Gly Ala Gln Val Leu
        35   40   45

Ala Thr Gly Lys Thr Pro Gly Ala Glu Ile Asp Phe Lys Tyr Ala Leu
    50   55   60

Ile Gly Thr Ala Val Gly Val Ala Ile Ser Ala Gly Phe Leu Ala Leu
65   70   75   80

Lys Ile Cys Met Ile Arg Arg His Leu Phe Asp Asp Asp Ser Ser Asp
            85   90   95

Leu Lys Ser Thr Pro Gly Gly Leu Ser Asp Thr Ile Pro Leu Lys Lys
            100   105   110

Arg Ala Pro Arg Arg Asn His Asn Phe Ser Lys Arg Asp Ala Gln Val
        115   120   125

Ile Glu Leu
    130

<210> 5637
<211> 166
<212> PRT
<213> Homo sapiens

<400> 5637
Pro Thr Arg Pro His Ser Ala Arg Leu Thr Met Cys His Ser Arg Ser
 1   5   10   15

4961

```
Cys His Pro Thr Met Thr Ile Leu Gln Ala Pro Thr Pro Ala Pro Ser
            20              25              30

Thr Ile Pro Gly Pro Arg Arg Gly Ser Gly Pro Glu Ile Phe Thr Phe
            35              40              45

Asp Pro Leu Pro Glu Pro Ala Ala Ala Pro Ala Gly Arg Pro Ser Ala
    50              55              60

Ser Arg Gly His Arg Lys Arg Ser Arg Arg Val Leu Tyr Pro Arg Val
65              70              75              80

Val Arg Arg Gln Leu Pro Val Glu Glu Pro Asn Pro Ala Lys Arg Leu
            85              90              95

Leu Phe Leu Leu Leu Thr Ile Val Phe Cys Gln Ile Leu Met Ala Glu
            100             105             110

Glu Gly Val Pro Ala Pro Leu Pro Pro Glu Asp Ala Pro Asn Ala Ala
            115             120             125

Ser Leu Ala Pro Thr Pro Val Ser Pro Val Leu Glu Pro Phe Asn Leu
    130             135             140

Thr Ser Glu Pro Ser Asp Tyr Ala Leu Asp Leu Ser Thr Phe Leu Gln
145             150             155             160

Gln His Pro Ala Ala Phe
            165
```

```
<210> 5638
<211> 169
<212> PRT
<213> Homo sapiens

<400> 5638
Gly Pro Ser Trp Arg Ser Asn Pro Arg Gly Arg Ser Ser Ser Thr Trp
 1           5              10              15

Ser Ser Ser Ser Pro Pro Arg Ser Arg Ser Arg Ser Arg Ser Ser Ser
            20              25              30

Pro Asn Pro Ser Leu Ser Leu Ser Arg Asn Pro Ser Pro Asn His Asn
            35              40              45

Pro Ser Leu Ser Pro Asn Pro Ser Leu Ser Pro Ser Ser Ser Thr Arg
    50              55              60
```

4962

```
Ile Arg Ile His Ile His Ile His Thr Leu Ile Leu Thr Arg Thr His
65               70              75              80

Thr Leu Thr Arg Thr Arg Ile Arg Thr Lys Tyr Arg Thr His Thr His
             85              90              95

Ser Arg Thr Arg Ser Arg Thr Gly Thr Gly Phe Ser Ala Ala Pro Pro
            100             105             110

Thr Leu Pro Glu Arg Gly Ser Ser Arg Ala Arg Gln Gly Phe Glu Asp
        115             120             125

Leu Arg Lys Trp Asp Glu His Ile Ser Ile Val Phe Thr Trp Ile Lys
    130             135             140

Ser Lys Thr Val Ser Pro Pro Arg Thr Arg Ser Ser Ser Leu Asp Ile
145             150             155             160

Thr Leu Leu Lys Thr Cys Asp Ser Ser
                165
```

```
<210> 5639
<211> 62
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (12)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5639
Lys Thr Phe Ser Ile Arg Lys Arg Gly Lys Phe Xaa Pro Ser Lys Phe
1               5               10              15

Asp Tyr Ser Ser Lys Leu Ser Leu Leu Met Gln Ser Ser Phe Val Thr
            20              25              30

Leu Thr Leu Gly His Cys Tyr Gln Thr Ser Trp Glu Ile Ser Ser Ser
            35              40              45

Arg Arg Leu Asn Thr Cys Arg Lys Gln Met Phe Phe Gly Pro
    50              55              60
```

```
<210> 5640
<211> 337
<212> PRT
```

4963

<213> Homo sapiens

<220>
<221> SITE
<222> (7)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5640
Ala Pro Ala Cys Gly Ala Xaa Ala Trp Lys Phe Leu Leu Gly Tyr Leu
 1   5   10   15

Ser Trp Glu Gly Thr Ala Glu Glu His Lys Ala His Ile Arg Lys Lys
            20   25   30

Thr Asp Glu Tyr Phe Arg Met Lys Leu Gln Trp Lys Ser Val Ser Pro
            35   40   45

Glu Gln Glu Arg Arg Asn Ser Leu Leu His Gly Tyr Arg Ser Leu Ile
        50   55   60

Glu Arg Asp Val Ser Arg Thr Asp Arg Thr Asn Lys Phe Tyr Glu Gly
65   70   75   80

Pro Glu Asn Pro Gly Leu Gly Leu Leu Asn Asp Ile Leu Leu Thr Tyr
                85   90   95

Cys Met Tyr His Phe Asp Leu Gly Tyr Val Gln Gly Met Ser Asp Leu
            100   105   110

Leu Ser Pro Ile Leu Tyr Val Ile Gln Asn Glu Val Asp Ala Phe Trp
        115   120   125

Cys Phe Cys Gly Phe Met Glu Leu Val Gln Gly Asn Phe Glu Glu Ser
    130   135   140

Gln Glu Thr Met Lys Arg Gln Leu Gly Arg Leu Leu Leu Leu Leu Arg
145   150   155   160

Val Leu Asp Pro Leu Leu Cys Asp Phe Leu Asp Ser Gln Asp Ser Gly
                165   170   175

Ser Leu Cys Phe Cys Phe Arg Trp Leu Leu Ile Trp Phe Lys Arg Glu
            180   185   190

Phe Pro Phe Pro Asp Val Leu Arg Leu Trp Glu Val Leu Trp Thr Gly
        195   200   205

Leu Pro Gly Pro Asn Leu His Leu Leu Val Ala Cys Ala Ile Leu Asp
    210   215   220

Met Glu Arg Asp Thr Leu Met Leu Ser Gly Phe Gly Ser Asn Glu Ile

4964

```
     225                   230                   235                   240

     Leu Lys His Ile Asn Glu Leu Thr Met Lys Leu Ser Val Glu Asp Val
                     245                   250                   255

     Leu Thr Arg Ala Glu Ala Leu His Arg Gln Leu Thr Ala Cys Pro Glu
                     260                   265                   270

     Leu Pro His Asn Val Gln Glu Ile Leu Gly Leu Ala Pro Pro Ala Glu
                     275                   280                   285

     Pro His Ser Pro Ser Pro Thr Ala Ser Pro Leu Pro Leu Ser Pro Thr
             290                   295                   300

     Arg Ala Pro Pro Thr Pro Pro Ser Thr Asp Thr Ala Pro Gln Pro
     305                   310                   315                   320

     Asp Ser Ser Leu Glu Ile Leu Pro Glu Glu Glu Asp Glu Gly Ala Asp
                     325                   330                   335

     Ser
```

```
<210> 5641
<211> 54
<212> PRT
<213> Homo sapiens

<400> 5641
Met Gln Leu Leu Leu Leu Thr Cys Leu Leu Gln Leu Ile Met Val Thr
   1                   5                  10                  15

Asn Lys Ala Ile Ala Ser Gln Ile Ser Gln Ile Lys His Phe Phe His
                   20                  25                  30

Cys Ile Leu Val Val Val Cys Pro Asn Ser Ser Met Tyr Leu Ile Met
               35                  40                  45

Ser Gly Ser Ile Leu His
       50
```

```
<210> 5642
<211> 65
<212> PRT
<213> Homo sapiens

<220>
```

4965

```
<221> SITE
<222> (44)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (48)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (51)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5642
Cys Leu Trp Leu Phe Lys Ser Gln Ser Leu Val Asn His Ile Thr Ile
 1               5                  10                  15

Arg Pro Trp Phe Ser Ile Gly Gly Asp Phe Pro Arg Gly Thr Phe Gly
            20                  25                  30

His Val Leu Glu Ala Phe Trp Leu Ser His Trp Xaa Pro Gly Val Xaa
            35                  40                  45

Leu Pro Xaa Thr Lys Lys Lys Lys Lys Lys Lys Arg Gly Ala Phe
        50                  55                  60

Leu
 65




<210> 5643
<211> 83
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (32)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5643
Thr Asn Phe Phe Gln Leu Val Lys His His Thr Ser Ser Ala Lys Gly
 1               5                  10                  15

Ile Leu Leu Ala Glu Pro Ser Trp Met Ile Ser Val Thr His Ala Xaa
            20                  25                  30

Thr Cys Ser Leu Glu Gly Ser Gly Glu Trp Ile His Ala Ile Cys Leu
            35                  40                  45
```

4966

```
Glu Asp Thr Arg Met Ser Gln Pro Pro Asp Leu Val Ile Tyr Lys Leu
    50              55              60
```

```
Leu Arg Ile Thr Leu Val Tyr Phe Trp Ser Glu Asn Gly Lys Ala Gln
65              70              75              80
```

```
Ile Met Lys
```

<210> 5644
<211> 407
<212> PRT
<213> Homo sapiens

<400> 5644
```
Ala Ala Cys Gln Pro Arg Cys Cys Cys Ser Ser Cys Cys Gly Thr Ala
 1               5              10              15
```

```
Asp Arg Ala Ala Ala Pro Leu Ser Pro Leu Gln Ala Pro Ile Trp Ala
            20              25              30
```

```
Pro Ala Thr Ser Met Asp Ala Arg Arg Val Pro Gln Lys Asp Leu Arg
        35              40              45
```

```
Val Lys Lys Asn Leu Lys Lys Phe Arg Tyr Val Lys Leu Ile Ser Met
    50              55              60
```

```
Glu Thr Ser Ser Ser Ser Asp Asp Ser Cys Asp Ser Phe Ala Ser Asp
65              70              75              80
```

```
Asn Phe Ala Asn Thr Arg Leu Gln Ser Val Arg Glu Gly Cys Arg Thr
            85              90              95
```

```
Arg Ser Gln Cys Arg His Ser Gly Pro Leu Arg Val Ala Met Lys Phe
            100             105             110
```

```
Pro Ala Arg Ser Thr Arg Gly Ala Thr Asn Lys Lys Ala Glu Ser Arg
            115             120             125
```

```
Gln Pro Ser Glu Asn Ser Val Thr Asp Ser Asn Ser Asp Ser Glu Asp
    130             135             140
```

```
Glu Ser Gly Met Asn Phe Leu Glu Lys Arg Ala Leu Asn Ile Lys Gln
145             150             155             160
```

```
Asn Lys Ala Met Leu Ala Lys Leu Met Ser Glu Leu Glu Ser Phe Pro
            165             170             175
```

4967

Gly Ser Phe Arg Gly Arg His Pro Leu Pro Gly Ser Asp Ser Gln Ser
            180   185   190

Arg Arg Pro Arg Arg Arg Thr Phe Pro Gly Val Ala Ser Arg Arg Asn
            195   200   205

Pro Glu Arg Arg Ala Arg Pro Leu Thr Arg Ser Arg Ser Arg Ile Leu
    210   215   220

Gly Ser Leu Asp Ala Leu Pro Met Glu Glu Glu Glu Glu Glu Asp Lys
225   230   235   240

Tyr Met Leu Val Arg Lys Arg Lys Thr Val Asp Gly Tyr Met Asn Glu
            245   250   255

Asp Asp Leu Pro Arg Ser Arg Arg Ser Arg Ser Ser Val Thr Leu Pro
            260   265   270

His Ile Ile Arg Pro Val Glu Glu Ile Thr Glu Glu Glu Leu Glu Asn
        275   280   285

Val Cys Ser Asn Ser Arg Glu Lys Ile Tyr Asn Arg Ser Leu Gly Ser
        290   295   300

Thr Cys His Gln Cys Arg Gln Lys Thr Ile Asp Thr Lys Thr Asn Cys
305   310   315   320

Arg Asn Pro Asp Cys Trp Gly Val Arg Gly Gln Phe Cys Gly Pro Cys
                325   330   335

Leu Arg Asn Arg Tyr Gly Glu Glu Val Arg Asp Ala Leu Leu Asp Pro
            340   345   350

Asn Trp His Cys Pro Pro Cys Arg Gly Ile Cys Asn Cys Ser Phe Cys
        355   360   365

Arg Gln Arg Asp Gly Arg Cys Ala Thr Gly Val Leu Val Tyr Leu Ala
    370   375   380

Lys Tyr His Gly Phe Gly Asn Val His Ala Tyr Leu Lys Ser Leu Lys
385   390   395   400

Gln Glu Phe Glu Met Gln Ala
                405

<210> 5645
<211> 44
<212> PRT
<213> Homo sapiens

<400> 5645
Arg Glu Ala Ser Gly Ser Leu Trp Glu Gln Ser Tyr Lys Leu Ile Glu
1   5   10   15

Ile His Thr Leu Pro Lys Gln Leu Gly Pro Thr Thr Val Pro His Val
            20   25   30

Ser Met Gln Asn Tyr Ile Leu Pro Arg Ile Asn Ser
        35   40

<210> 5646
<211> 56
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (3)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (19)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5646
Lys Met Xaa Leu Thr Leu Thr Lys Gly Asn Lys Ser Trp Ser Ser Thr
1   5   10   15

Ala Val Xaa Ala Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn
            20   25   30

Ser Ala Pro Leu Cys Met Tyr Ser Ser Leu Leu Pro Ser Ser Gln Leu
        35   40   45

Ser Val Arg Tyr Val Phe Leu Ser
    50   55

<210> 5647
<211> 35
<212> PRT
<213> Homo sapiens

<400> 5647
Ser Val Cys Val His Thr Phe Tyr Phe Ser Val Ser Trp Val Tyr Val
1   5   10   15

4969

Trp Leu Lys Thr Ile Leu Glu Ser Lys Ser Ile Leu Ile Tyr Lys Lys
            20   25   30

Thr Phe Trp
        35

<210> 5648
<211> 106
<212> PRT
<213> Homo sapiens

<400> 5648
Gln Cys Pro Met Gly Pro Leu Leu Leu Pro Ala Pro Ser Leu Leu Leu
 1   5   10   15

Leu Met His Ser Pro Leu Pro Ala Ala Pro Gly Phe Pro Ala Phe Leu
            20   25   30

Leu Thr Pro Ser Asn Ser Leu Gly Thr Pro Ala Ala Thr Thr Leu Trp
            35   40   45

Val Gly His Trp Asp Pro Leu Ala Gln Ser Trp Leu Leu Leu Thr Pro
     50   55   60

Ser Leu Asp Ala Cys Pro Gly Thr Pro Ser Pro Leu Pro Leu Pro Cys
 65   70   75   80

Ser Phe Asn Arg Val Asn His Val Tyr Cys Thr Gly Ala Val Val Ile
                85   90   95

Ala Glu Thr Ala Gly Trp Arg Arg Ser Arg
            100   105

<210> 5649
<211> 85
<212> PRT
<213> Homo sapiens

<400> 5649
Arg Asn Pro Lys Asn Gly Asn Asn Pro Ser His Gly Cys His Thr Leu
 1   5   10   15

Leu Thr Cys Ser Ile Pro Thr Gln Glu Leu Pro Ala Tyr Gly Ala Ser
            20   25   30

His Trp Ser Thr Ser Tyr Pro Gln His Leu Ser Cys His Cys Gln Gly

4970

```
               35                    40                    45
Thr Tyr Leu Trp Pro Pro Ala Ile Leu Tyr Arg Ala Ile Val Leu Tyr
        50                    55                    60

Ile Leu His Ile Arg Lys Leu Arg Leu Lys Val Asn Leu Ile Cys Leu
65                    70                    75                    80

Cys Gln Ser Gln Asp
                85



<210> 5650
<211> 269
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (4)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (177)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5650
Gly Pro Tyr Xaa Tyr Phe Leu Pro Gly Glu Cys Leu Asp Cys Ser Pro
 1               5                   10                  15

Leu Leu Val Leu Gln Gly Val Thr His Ala Ala Ile Trp Ala Ala Cys
                20                  25                  30

Ile Ser Tyr Leu Ser Ala Ala Val Pro Pro Glu Leu Arg Thr Ser Ala
        35                  40                  45

Gln Gly Ile Leu Gln Gly Leu His Leu Gly Leu Gly Arg Gly Cys Gly
        50                  55                  60

Ala Met Ile Gly Gly Val Leu Val Asn Tyr Phe Gly Ala Ala Ala Thr
65                  70                  75                  80

Phe Arg Gly Ile Gly Met Ala Cys Leu Val Ile Leu Leu Leu Phe Ala
                85                  90                  95

Leu Ile Gln Trp Leu Ala Val Pro Asp Glu Glu Glu Asp Lys Thr Met
                100                 105                 110

Leu Ala Glu Arg Ile Pro Val Pro Ser Ser Pro Val Pro Ile Ala Thr
```

4971

```
              115                   120                   125

Ile Asp Leu Val Gln Gln Gln Thr Glu Asp Val Met Pro Arg Ile Glu
    130                   135                   140

Pro Arg Leu Pro Pro Lys Lys Thr Lys His Gln Glu Glu Gln Glu Asp
145                   150                   155                   160

Val Asn Lys Pro Ala Trp Gly Val Ser Ser Ser Pro Trp Val Thr Phe
                  165                   170                   175

Xaa Tyr Ala Leu Tyr Gln Ile Lys Glu Met Met Gln Leu Thr Arg Asp
                  180                   185                   190

Asn Arg Ala Ser Glu Ile Gln Pro Leu Gln Gly Thr Asn Glu Asn Arg
              195                   200                   205

Glu Asn Ser Pro Ala Gly Arg Ala Gln Pro Val Pro Cys Glu Thr His
    210                   215                   220

Ser Asp Pro Ser Arg Asn Gln Pro Ser Pro Asp Ala Ala Ala Ser Gln
225                   230                   235                   240

Thr Gln Thr Ser Pro Ala His Pro Ser Val Asp Pro Cys Thr Glu Glu
                  245                   250                   255

Ser Glu Glu Gln Gln Ala Gln Leu Ala Ala Gly Gly His
              260                   265
```

```
<210> 5651
<211> 364
<212> PRT
<213> Homo sapiens

<400> 5651
Cys Leu Arg Lys Ser Phe Glu Met Thr Val Glu Lys Val Gln Gly Ile
    1               5                   10                  15

Ser Arg Leu Glu Gln Leu Cys Glu Glu Phe Ser Glu Glu Glu Arg Val
                  20                  25                  30

Arg Glu Leu Lys Gln Glu Lys Lys Arg Gln Lys Arg Lys Asn Arg Arg
              35                  40                  45

Lys Asn Lys Cys Val Cys Asp Ile Pro Thr Pro Leu Gln Thr Ala Asp
    50                  55                  60

Glu Lys Glu Val Ser Gln Glu Lys Glu Thr Asp Phe Ile Glu Asn Ser
65                  70                  75                  80
```

4972

Ser Cys Lys Ala Cys Gly Ser Thr Glu Asp Gly Asn Thr Cys Val Glu
                85   90   95

Val Ile Val Thr Asn Glu Asn Thr Ser Cys Thr Cys Pro Ser Ser Gly
            100   105   110

Asn Leu Leu Gly Ser Pro Lys Ile Lys Lys Gly Leu Ser Pro His Cys
        115   120   125

Asn Gly Ser Asp Cys Gly Tyr Ser Ser Ser Met Glu Gly Ser Glu Thr
    130   135   140

Gly Ser Arg Glu Gly Ser Asp Val Ala Cys Thr Glu Gly Ile Cys Asn
145   150   155   160

His Asp Glu His Gly Asp Asp Ser Cys Val His His Cys Glu Asp Lys
            165   170   175

Glu Asp Asp Gly Asp Ser Cys Val Glu Cys Trp Ala Asn Ser Glu Glu
            180   185   190

Asn Asp Thr Lys Gly Lys Asn Lys Lys Lys Lys Lys Ser Lys Ile
        195   200   205

Leu Lys Cys Asp Glu His Ile Gln Lys Leu Gly Ser Cys Ile Thr Asp
    210   215   220

Pro Gly Asn Arg Glu Thr Ser Gly Asn Thr Met His Thr Val Phe His
225   230   235   240

Arg Asp Lys Thr Lys Asp Thr His Pro Glu Ser Cys Cys Ser Ser Glu
            245   250   255

Lys Gly Gly Gln Pro Leu Pro Trp Phe Glu His Arg Lys Asn Val Pro
            260   265   270

Gln Phe Ala Glu Pro Thr Glu Thr Leu Phe Gly Pro Asp Ser Gly Lys
        275   280   285

Gly Ala Lys Ser Leu Val Glu Leu Leu Asp Glu Ser Glu Cys Thr Ser
    290   295   300

Asp Glu Glu Ile Phe Ile Ser Gln Asp Glu Ile Gln Ser Phe Met Ala
305   310   315   320

Asn Asn Gln Ser Phe Tyr Ser Asn Arg Glu Gln Tyr Arg Gln His Leu
            325   330   335

Lys Glu Lys Phe Asn Lys Tyr Cys Arg Leu Asn Asp His Lys Arg Pro
        340   345   350

4973

Ile Cys Ser Gly Trp Leu Thr Thr Ala Gly Ala Asn
        355   360

<210> 5652
<211> 90
<212> PRT
<213> Homo sapiens

<400> 5652
Ala Thr Leu Trp Asp Gly His Ala Ala Val Trp His Gly Tyr Glu Val
 1   5   10   15

His Gly Met Glu Lys Ile Pro Glu Asp Gly Pro Ala Leu Ile Ile Phe
            20   25   30

Tyr His Gly Ala Ile Pro Ile Asp Phe Tyr Tyr Phe Met Ala Lys Ile
        35   40   45

Phe Ile His Lys Gly Arg Thr Cys Arg Val Val Ala Asp His Phe Val
    50   55   60

Phe Lys Ile Gln Gly Leu Val Tyr Tyr Trp Met Cys Phe Val Leu Tyr
 65   70   75   80

Met Asp Gln Glu Lys Asn Val Leu Lys Phe
                85   90

<210> 5653
<211> 104
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (3)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5653
His Ser Xaa Met Trp Leu Val His Leu Thr Arg Glu Glu Trp Gly Tyr
 1   5   10   15

Leu Asp Pro Val Gln Arg Asp Leu Tyr Arg Glu Val Met Leu Glu Asn
            20   25   30

Tyr Gly Asn Val Val Ser Leu Gly Ile Leu Leu Arg Leu Pro Thr Thr
        35   40   45

Arg Ile His Ser Val Asn Ser Cys Pro Ala Leu Ser His Thr Gln Ala
    50   55   60

Ser Ala Phe Ser Gly Glu Thr Leu Ala Val Leu Thr Ala Gly Ile Ser
65   70   75   80

Lys Arg Trp Pro Lys Tyr Arg Leu Pro Ile Asp Ile Ala Arg Pro Cys
            85   90   95

Ser Glu Thr Pro Phe Pro Arg Leu
            100

<210> 5654
<211> 49
<212> PRT
<213> Homo. sapiens

<400> 5654
Pro Leu Lys Thr Phe Pro Val Cys Leu Val Ile Ala Lys Pro Arg Lys
1   5   10   15

Ile Ser Phe Leu Ser Ser Tyr Arg Glu Leu Ala Met Lys Leu Lys Phe
            20   25   30

Asn Cys Val Ser Arg Ser Leu Ile Phe Leu Gln Ile Ile Asn Tyr Val
            35   40   45

Leu

<210> 5655
<211> 40
<212> PRT
<213> Homo sapiens

<400> 5655
Lys Leu Asp Phe Lys Ile Thr Asn Glu Arg Asn Leu Ile Leu Phe Cys
1   5   10   15

Asp Arg Ser Gln Val Leu Gln Trp Phe Ala Ile Gln Asn Leu Ile Ile
            20   25   30

Val Lys Pro Gln Phe Lys Arg Leu
            35   40

4975

<210> 5656
<211> 74
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (48)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5656
Gly Tyr Leu Cys Leu Leu Cys Ile Leu Val Met Ala Arg Ser Arg Leu
 1   5   10   15

Ser Thr Thr Gly Arg His Pro Ala Val Val Ser Leu Leu Glu Leu Asn
            20   25   30

Val Trp Leu Ser Lys Ile Leu Ser Ile Glu Ser Leu Ser Leu Lys Xaa
        35   40   45

Leu Leu Gln Met Asn Ala Gln His Glu Ile Phe Lys Ile Val Ser Tyr
    50   55   60

Thr Leu Gly Ser Asn Lys Gln Lys Ile Leu
65   70

<210> 5657
<211> 121
<212> PRT
<213> Homo sapiens

<400> 5657
Phe Ser Val Thr Gly Gln Ala Pro Val Glu Ile Ser Phe Val Leu Leu
 1   5   10   15

Trp Ala Gln Arg Trp Trp Trp Phe Gly Ser Ser Glu Asp Cys Leu Gly
            20   25   30

Arg Phe Ser Gly His Gly Ala Leu Cys Trp Pro Gly Trp Gly Trp Pro
        35   40   45

Arg Arg Cys Pro Phe Pro Gly Ala Leu Trp Trp Leu Gln Lys Thr Ser
    50   55   60

Phe Val Glu Asn Cys Phe Ser Ala Trp Asn Gln Thr Ser Ser Arg Trp
65   70   75   80

Phe Gly Pro Cys Pro Cys Val Gly His Tyr His Thr Lys Arg Pro Ile

4976

```
                    85                    90                    95
Lys Ile Lys Lys Ile Lys Lys Lys Lys Thr Asn Tyr Trp Arg Trp Trp
            100               105               110

Pro Met Met His Leu Leu Phe Ala Gly
            115               120
```

```
<210> 5658
<211> 25
<212> PRT
<213> Homo sapiens

<400> 5658
Trp Thr Pro Val Ile Pro Gly Thr Arg Glu Ala Glu Ala Gly Glu Ser
 1               5                   10                15

Leu Glu Pro Gly Arg Gln Arg Leu Gln
            20                25
```

```
<210> 5659
<211> 52
<212> PRT
<213> Homo sapiens

<400> 5659
Ser Ile Asp Thr Phe Tyr Ile Gln Phe Tyr Lys Tyr Lys Tyr Tyr Asn
 1               5                   10                15

Phe Ile Leu Met Val Pro Lys Ile His Phe Leu Arg Leu Lys Ala Cys
            20                25                30

Thr Ser Met His Thr Cys Phe Trp Gly Glu Trp Gly Glu Asp Ile Leu
            35                40                45

Ile Ile Ser Leu
        50
```

```
<210> 5660
<211> 49
<212> PRT
<213> Homo sapiens

<400> 5660
Tyr Ile Phe Leu Ile Ser Tyr Arg Leu Tyr Arg Lys Glu Val Leu Glu
```

4977

```
     1              5                    10                     15
   Lys Leu Ile Glu Lys Cys Val Ser Lys Gly Tyr Val Phe Gln Met Glu
                20                   25                   30

   Met Ile Val Arg Ala Arg Gln Leu Asn Tyr Thr Ile Gly Glu Val Cys
                35                   40                   45

   Asn
```

```
<210> 5661
<211> 222
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (115)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (117)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (118)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (156)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (194)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (217)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (218)
```

4978

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5661
Gln Trp Val Ala Tyr Gly Ser Glu Pro His Thr Ser Val Pro Val Pro
 1   5   10   15

Ala Gly Ser Leu Pro Asp His Ala Val His Arg Pro His Asp Arg Cys
            20   25   30

Ala Arg Ser Gly Val Met Pro Pro Ala Gln Leu Thr Thr Ile Asn Gln
        35   40   45

Ser Gln Leu Ser Ala Gln Leu Gly Leu Asn Leu Gly Gly Ala Ser Met
    50   55   60

Pro His Thr Ser Pro Ser Pro Pro Ala Ser Lys Ser Ala Thr Pro Ser
65   70   75   80

Pro Ser Ser Ser Ile Asn Glu Glu Asp Ala Asp Glu Ala Asn Arg Ala
            85   90   95

Ile Gly Glu Lys Arg Ala Ala Pro Asp Ser Gly Lys Lys Pro Lys Thr
        100   105   110

Pro Lys Xaa Lys Xaa Xaa Lys Asp Pro Asn Glu Pro Gln Lys Pro Val
        115   120   125

Ser Ala Tyr Ala Leu Phe Phe Arg Asp Thr Gln Ala Ala Ile Lys Gly
    130   135   140

Gln Asn Pro Asn Ala Thr Phe Gly Glu Val Ser Xaa Ile Val Ala Ser
145   150   155   160

Met Trp Asp Ser Leu Gly Glu Glu Gln Lys Gln Val Tyr Lys Arg Lys
            165   170   175

Thr Glu Ala Ala Lys Lys Glu Tyr Leu Lys Ala Leu Ala Ala Tyr Arg
            180   185   190

Ala Xaa Leu Val Ser Lys Ala Ala Ala Glu Ser Ala Glu Ala Gln Thr
    195   200   205

Ile Arg Ser Val Gln Gln Thr Leu Xaa Xaa Thr Asn Leu Thr
210   215   220

<210> 5662
<211> 48
<212> PRT
<213> Homo sapiens

4979

<400> 5662
Arg Tyr Ile Ile Thr Lys Leu Lys Leu Cys Phe Cys Phe Ile Gln Arg
1   5   10   15

Asn Leu Lys Ile Ile Asp Lys Lys Phe Leu Phe Arg Ala Met Ser Leu
                20   25   30

Tyr His Thr Leu Gly Asn Glu Thr Leu Ser Tyr Val Leu Ser Asp Asn
            35   40   45

<210> 5663
<211> 94
<212> PRT
<213> Homo sapiens

<400> 5663
Lys Leu Arg Tyr Ile Leu Pro Lys Asn Phe Phe Asn Lys Ile Ala Lys
1   5   10   15

Asn Ile Leu Phe Arg His Phe Asn Val Pro Ile Tyr Asn Trp Ile Phe
                20   25   30

Ser Leu Asn Ser Thr Gln Ser Cys Gly Phe Tyr Phe Gln Leu Ile Phe
            35   40   45

Phe Leu Val Gly Ser Val His Gly Ile Ile Ser Leu Ser Arg Gly Leu
        50   55   60

Ser Cys Met Cys Ala Glu Phe Val Lys Glu Ser Ile Gly Arg Cys Arg
65   70   75   80

Arg Pro Arg Phe Ala Phe Lys Val Phe Phe Arg Leu Cys Gly
                85   90

<210> 5664
<211> 65
<212> PRT
<213> Homo sapiens

<400> 5664
Gly Val Phe Ala Ala Met Tyr Ser Tyr Ser Ser Met Leu Thr Leu Pro
1   5   10   15

4980

```
Phe Asp Val Val Gln Asn Leu Asp Leu Ser Pro Trp Ile Ser Pro Val
            20              25              30

Val Pro Ala Ser Arg Gly Ile Phe Leu His Val Ser Gln Pro Pro Ser
            35              40              45

Cys Ser Arg Val Leu Leu Asp Leu Gly Phe Ser Cys Pro Ser Leu Leu
        50              55              60

Gly
65
```

<210> 5665
<211> 111
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (95)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (103)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5665
```
Ile Ser Asn Thr Ser Ser Asp Cys Arg Pro Ser Glu Glu Ser Glu Leu
  1             5               10              15

Leu Thr Asp Thr Thr Thr Asn Ile Leu Ser Gly Thr Thr Ser Thr Val
            20              25              30

Glu Ser Asp Ile Leu Thr Gln Thr Asp Arg Glu Val Ala Leu His Glu
            35              40              45

Arg Ser Ser Ser Val Ser Thr Ile Asp Thr Ala Arg Leu Ile Gln Ala
        50              55              60

Phe Gly His Glu Arg Val Cys Leu Ser Pro Arg Arg Ile Lys Leu Tyr
65              70              75              80

Ser Ser Ile Thr Asn Gln Gln Arg Arg Tyr Leu Glu Glu Ala Xaa Lys
                85              90              95

His Ser Lys Lys Val Leu Xaa Tyr Arg Ser Ser Pro Ser Asp Phe
            100             105             110
```

```
<210> 5666
<211> 129
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (29)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (80)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (91)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (106)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (112)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5666
Gly Pro Ser Trp Val Arg Leu Gly Leu Ser Trp Ala Leu Tyr Val Phe
 1               5                  10                  15

Trp Ile Gln Gly Tyr Trp Ala Arg Tyr Val Cys Gly Xaa Ile Pro Ser
            20                  25                  30

Leu Pro Gln Pro His Leu Pro Leu Lys Pro Ser Leu Ala Leu Ser Glu
        35                  40                  45

Leu Pro Phe Leu Leu Pro Ser Leu Pro Ser Ala Gln Cys Pro Thr Trp
    50                  55                  60

Leu Phe Cys Tyr Phe Gly Ser Gly Gly Thr Ser Trp Glu Cys Glu Xaa
65                  70                  75                  80

Pro Tyr Arg Lys Ile Ala Leu Gln Glu Glu Xaa Leu Gln Gly Thr Ile
            85                  90                  95
```

```
Leu Asn Pro Lys Ala Trp Asn Leu Leu Xaa His Phe Thr Phe Val Xaa
            100             105             110

Lys Gly Leu Leu Asn Ala Leu Glu Lys Asp Leu Gly Pro Glu Leu Leu
            115             120             125

Ser
```

```
<210> 5667
<211> 124
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (24)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (25)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5667
Pro Ile His Glu Leu Met Pro Glu Asp Arg Ala Ser Thr Pro Arg Thr
  1               5               10              15

Thr Thr Met Thr Phe Thr Cys Xaa Xaa Phe Phe Asp Leu Phe Asn Ala
            20              25              30

Leu Thr Cys Arg Ser Gln Thr Lys Leu Ile Phe Glu Ile Gly Phe Leu
            35              40              45

Arg Asn His Met Phe Leu Tyr Ser Val Leu Gly Ser Ile Leu Gly Gln
    50              55              60

Leu Ala Val Ile Tyr Ile Pro Pro Leu Gln Arg Val Phe Gln Thr Glu
 65              70              75              80

Asn Leu Gly Ala Leu Asp Leu Leu Phe Leu Thr Gly Leu Ala Ser Ser
            85              90              95

Val Phe Ile Leu Ser Glu Leu Leu Lys Leu Cys Glu Lys Tyr Cys Cys
            100             105             110

Ser Pro Lys Arg Val Gln Met His Pro Glu Asp Val
            115             120
```

4983

```
<210> 5668
<211> 50
<212> PRT
<213> Homo sapiens

<400> 5668
Val Ser Val Lys Gln Phe Tyr Phe Ser Tyr Val Thr Val Ala Gly Tyr
 1               5                   10                  15

Asp Leu Asn Phe Val Phe Arg Pro Pro Ala Arg Ile Leu Cys Leu Leu
             20                  25                  30

Leu Tyr Ser Arg Ser Val Phe Leu Pro Arg Leu Arg His Arg Gly Pro
         35                  40                  45

Gln Pro
     50


<210> 5669
<211> 170
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (38)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (63)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (97)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (154)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5669
Leu Leu His Leu Ile Leu Tyr Met Ser Asn Ala Ser Phe Leu Ser Val
 1               5                   10                  15
```

4984

Cys Leu Leu Ala Glu Asn Pro Val Gln Leu Ser Pro Gly Cys His Gly
                20   25   30

Lys Tyr Asp Lys Glu Xaa Thr Leu Gly Leu Gly Leu Lys Gly Leu Val
            35   40   45

Ile Gln Lys Thr Arg Glu Gly Cys Thr Cys Arg Val Ile Tyr Xaa Arg
        50   55   60

Asn Leu Ile Lys Tyr Leu Ala His Arg Ser Tyr Lys Glu Ser Phe Gln
65   70   75   80

Arg Gly Pro Leu Ala Thr Ala Gly Phe Phe Val Arg Asn Ile Cys Val
                85   90   95

Xaa Phe Tyr Pro Arg Glu Gln Asn Pro Arg Lys Gly Ser Phe Ile Ile
            100   105   110

Tyr Ser His Phe Ser Ser Phe Leu Asn Lys Thr Phe Ser Ser Arg Asn
            115   120   125

Thr Ala Phe Glu Gly Leu Cys Phe Met Gln Pro Ala Ser Leu Val Asp
        130   135   140

Leu Phe Thr Arg Ser His Gln Val Ile Xaa Ser Ile Leu Gly Arg Trp
145   150   155   160

Arg Lys Gln Thr Asp Thr Val Ser Arg Cys
                165   170

<210> 5670
<211> 83
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (61)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (75)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5670
Tyr Val Leu Ser Ala Phe Arg Gly Leu Ser Arg Val Ile Asp Arg His
    1   5   10   15

4985

Leu Asn Glu Ala Leu Ser Phe Leu Lys Cys Lys Val Gly Glu Thr Gln
          20   25   30

Asp Thr Arg Lys Arg Lys Asp Ile Val His Ile Val Val Ala Val Ala
          35   40   45

Leu Arg Thr Val Leu Ala Arg Asp Arg Leu Gly Ile Xaa Ile Asn Pro
    50   55   60

Gly His Trp Gly Ser Phe Ser Gly Ser Leu Xaa Leu Ser Leu Pro Gly
65   70   75   80

Ser Thr His

<210> 5671
<211> 98
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (96)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5671
Val His Phe Ile Ser Thr Phe Tyr Tyr Ile Tyr Leu Ile Ala Gln Val
    1   5   10   15

Leu Leu Ser Arg Lys Lys Trp Asp Val Ala Asn Thr Ala Leu Leu Ala
          20   25   30

Cys Arg Gln Cys Cys Pro Val Asn Arg Leu Lys Cys Ile Phe Ile Ser
          35   40   45

Trp Tyr Ile Asn Leu Arg Lys Glu Lys Lys Lys Lys Lys Lys Lys Lys
    50   55   60

Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
65   70   75   80

Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Xaa
              85   90   95

Gly Gly

4986

```
<210> 5672
<211> 199
<212> PRT
<213> Homo sapiens

<400> 5672
Val Phe Leu Thr Tyr Ser Gly Gly Asp Ser Val Met Gln Ile Val Met
1               5                   10                  15

Phe Asp Arg Gln Ser Ile Phe Ile His Gly Met Lys Ile Ser Leu Gln
            20                  25                  30

Gln Arg Ile Pro Gly Val Ser Ile Gln Gly Ala Ser Gln Ala Asp Glu
        35                  40                  45

Leu Trp Gln Lys Leu Glu Ser Tyr Pro Glu Ala Leu Val Met Leu Asp
    50                  55                  60

Gly Asp Gln Asp Gly Glu Phe Cys Tyr Trp Leu Leu Gln Lys Thr Val
65                  70                  75                  80

Val Gln Phe Pro Glu Val Lys Val Leu Ile Thr Ala Thr Asp Cys Asn
                85                  90                  95

Lys Arg Trp Leu Gln Glu Val Ile His Phe Asn Val Leu Ala Ile Val
            100                 105                 110

Pro Arg Asp Ser Thr Val Glu Thr Phe Ala Leu Ala Val Asn Ser Ala
            115                 120                 125

Ala Met Gly Met Met Phe Leu Pro Gly Asp Trp Arg Thr Thr Pro Glu
            130                 135                 140

Lys Asp Ile Lys Asp Leu Lys Ser Leu Ser Ala Arg Gln Arg Glu Ile
145                 150                 155                 160

Leu Thr Met Leu Ala Ala Gly Glu Ser Asn Lys Glu Ile Gly Arg Ala
            165                 170                 175

Leu Asn Ile Ser Thr Gly Thr Val Lys Ala His Leu Glu Ser Leu Tyr
            180                 185                 190

Arg Arg Leu Glu Val Lys Asn
            195


<210> 5673
<211> 192
<212> PRT
<213> Homo sapiens
```

4987

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<220>
<221> SITE
<222> (166)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (172)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5673
Ile Met Leu His Ala Glu Ala Pro Ala Pro Ala Arg Phe Pro Ala Phe
 1               5                   10                  15


Ser Met Gly His Gly Gly Ala Phe Gly Glu Gly Leu Cys Gly Phe Pro
                 20                  25                  30


Pro Lys Ser Arg Leu Met Pro Leu Ile Pro Ser Gln Glu Val Ala Glu
          35                  40                  45


Gly Leu Gly Ser Val Gln Ala Pro Arg Gly Gly Asp Val Gln Val Lys
     50                  55                  60


Gln Gly Val Cys Arg Arg Arg Gly Ser Leu Pro Trp Ala Gly Cys Gln
 65                  70                  75                  80


His Leu Gly Val Pro Gly Cys Gln Glu Lys Phe Thr His Thr Arg Ala
                 85                  90                  95


Leu Leu Ala Lys Gly Glu Ser Tyr Asp Gly Arg Ala Arg Ala Leu Ser
              100                 105                 110


Arg His Gln Val Cys Ser Gln Ser Ser Arg Ser Ala Pro Val Thr Trp
          115                 120                 125


Asn Arg Pro Ala Phe Arg Gly Leu Ser Phe Leu Ile Cys Leu Met Gly
          130                 135                 140


Ile Ala Ile Pro Thr Phe Pro Val Leu Val Gly Phe Ser Leu Asp Ala
145                 150                 155                 160


Gln Glu Thr Ala Ala Xaa Glu Gly Leu Phe Gly Xaa Leu Phe His Val
                 165                 170                 175


Thr Pro Leu Leu Pro Cys Pro His Gly Ala Gly Gly Ala Gly Ala Trp
              180                 185                 190
```

4988

```
<210> 5674
<211> 44
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (34)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (38)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5674
Leu Cys Asn Cys Ile Thr Val Thr Asn Glu Ile Leu Ser Leu Leu Leu
 1               5                  10                  15

Ser Ile Cys Pro Lys Lys Pro Pro Pro His Val Leu Ser Gly Glu Leu
                20                  25                  30

Pro Xaa His Phe Trp Xaa Thr Ala Gln Ile Asn Ser
            35                  40


<210> 5675
<211> 92
<212> PRT
<213> Homo sapiens

<400> 5675
Glu Tyr Ser Ser Leu Ser Pro Arg Ile Asp Ser Ile Thr Gln Ser Asn
 1               5                  10                  15

Ile Asn Leu Asn Gly Leu Ala Pro Ser Phe Phe Ser Lys Asn Asn Gln
                20                  25                  30

Leu Ile Lys Lys Lys Phe Glu Gly Leu Asn Tyr Phe Asn Gly Cys Leu
            35                  40                  45

Lys Tyr Ser Val Gln Phe Val Pro Val Ser Ser Leu Ser Val Trp Gly
        50                  55                  60

Arg Ile Lys Tyr Cys Ala Lys Leu Val Leu Gly Tyr Ile Leu Gln His
65                  70                  75                  80

Leu Val Phe Tyr Leu Thr Asn Arg Ile Leu Val Pro
```

4989

85   90

<210> 5676
<211> 51
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (47)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5676
Ala Arg Met Phe Thr Phe Gly Arg Leu Phe Gln Ile Ile Thr Val Val
 1   5   10   15

Thr Cys Leu Gln Phe Ile Gln Asp Cys Cys Ile His Ser Arg Gln Ile
            20   25   30

Asn Ser Leu Leu Glu Thr Ser Ser Leu Ser Arg Cys Leu Glu Xaa Pro
        35   40   45

Asp Val Cys
    50

<210> 5677
<211> 486
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (197)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (203)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (483)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5677
Gln Val Gln Ile Arg Ile Leu Asp Val Asn Asp Asn Ile Pro Val Val

4990

```
   1                 5                    10                    15

Glu Asn Lys Val Leu Glu Gly Met Val Glu Glu Asn Gln Val Asn Val
          20                25                30

Glu Val Thr Arg Ile Lys Val Phe Asp Ala Asp Glu Ile Gly Ser Asp
          35                40                45

Asn Trp Leu Ala Asn Phe Thr Phe Ala Ser Gly Asn Glu Gly Gly Tyr
     50                55                60

Phe His Ile Glu Thr Asp Ala Gln Thr Asn Glu Gly Ile Val Thr Leu
65                   70                75                   80

Ile Lys Glu Val Asp Tyr Glu Glu Met Lys Asn Leu Asp Phe Ser Val
               85                90                95

Ile Val Ala Asn Lys Ala Ala Phe His Lys Ser Ile Arg Ser Lys Tyr
               100               105               110

Lys Pro Thr Pro Ile Pro Ile Lys Val Lys Val Lys Asn Val Lys Glu
          115               120               125

Gly Ile His Phe Lys Ser Ser Val Ile Ser Ile Tyr Val Ser Glu Ser
     130               135               140

Met Asp Arg Ser Ser Lys Gly Gln Ile Ile Gly Asn Phe Gln Ala Phe
145               150               155               160

Asp Glu Asp Thr Gly Leu Pro Ala His Ala Arg Tyr Val Lys Leu Glu
               165               170               175

Asp Arg Asp Asn Trp Ile Ser Val Asp Ser Val Thr Ser Glu Ile Lys
               180               185               190

Leu Ala Lys Leu Xaa Asp Phe Glu Ser Arg Xaa Val Gln Asn Gly Thr
          195               200               205

Tyr Thr Val Lys Ile Val Ala Ile Ser Glu Asp Tyr Pro Arg Lys Thr
210               215               220

Ile Thr Gly Thr Val Leu Ile Asn Val Glu Asp Ile Asn Asp Asn Cys
225               230               235               240

Pro Thr Leu Ile Glu Pro Val Gln Thr Ile Cys His Asp Ala Glu Tyr
               245               250               255

Val Asn Val Thr Ala Glu Asp Leu Asp Gly His Pro Asn Ser Gly Pro
               260               265               270

Phe Ser Phe Ser Val Ile Asp Lys Pro Pro Gly Met Ala Glu Lys Trp
```

4991

```
              275                    280                    285
Lys Ile Ala Arg Gln Glu Ser Thr Ser Val Leu Leu Gln Gln Ser Glu
    290              295              300

Lys Lys Leu Gly Arg Ser Glu Ile Gln Phe Leu Ile Ser Asp Asn Gln
305              310              315              320

Gly Phe Ser Cys Pro Glu Lys Gln Val Leu Thr Leu Thr Val Cys Glu
            325              330              335

Cys Leu His Gly Ser Gly Cys Arg Glu Ala Gln His Asp Ser Tyr Val
            340              345              350

Gly Leu Gly Pro Ala Ala Ile Ala Leu Met Ile Leu Ala Phe Leu Leu
            355              360              365

Leu Leu Leu Val Pro Leu Leu Leu Leu Met Cys His Cys Gly Lys Gly
        370              375              380

Ala Lys Gly Phe Thr Pro Ile Pro Gly Thr Ile Glu Met Leu His Pro
385              390              395              400

Trp Asn Asn Glu Gly Ala Pro Pro Glu Asp Lys Val Val Pro Ser Phe
                405              410              415

Leu Pro Val Asp Gln Gly Gly Ser Leu Val Gly Arg Asn Gly Val Gly
            420              425              430

Gly Met Ala Lys Glu Ala Thr Met Lys Gly Ser Ser Ser Ala Ser Ile
        435              440              445

Val Lys Gly Gln His Glu Met Ser Glu Met Asp Gly Arg Trp Glu Glu
    450              455              460

His Arg Ser Leu Leu Ser Gly Arg Ala Thr Gln Phe Thr Gly Ala Thr
465              470              475              480

Gly Ala Xaa His Asp His
            485
```

```
<210> 5678
<211> 311
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (135)
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4992

<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (175)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5678
Ala Ile Val Pro Ser Trp Asp Leu Asp Lys Asp Thr Ile Ser Leu Leu
 1   5   10   15

Ser Pro Val Leu Cys Ile Phe Pro Ser Pro Ser Ser Gln Thr Ser Leu
                20   25   30

Leu Tyr Val Phe Ser Leu Ala Gly Arg Met Thr Gln Asn Thr Val Ile
            35   40   45

Val Asn Gly Val Ala Met Ala Ser Arg Pro Ser Gln Pro Thr His Val
        50   55   60

Asn Val His Ile His Gln Glu Ser Ala Leu Thr Gln Leu Leu Lys Ala
65   70   75   80

Gly Gly Ser Leu Lys Lys Phe Leu Phe His Pro Gly Asp Thr Val Pro
                85   90   95

Ser Thr Ala Arg Ile Gly Tyr Glu Gln Leu Ala Leu Gly Val Thr Gln
            100   105   110

Ile Leu Leu Gly Val Val Ser Cys Val Leu Gly Val Cys Leu Ser Leu
            115   120   125

Gly Pro Trp Thr Val Leu Xaa Ala Ser Gly Cys Ala Phe Trp Ala Gly
        130   135   140

Ser Val Val Ile Ala Ala Gly Ala Gly Ala Ile Val His Glu Lys His
145   150   155   160

Pro Gly Lys Leu Ala Gly Tyr Ile Ser Ser Leu Leu Thr Leu Xaa Gly
                165   170   175

Phe Ala Thr Ala Met Ala Ala Val Val Leu Cys Val Asn Ser Phe Ile
            180   185   190

Trp Gln Thr Glu Pro Phe Leu Tyr Ile Asp Thr Val Cys Asp Arg Ser
            195   200   205

Asp Pro Val Phe Pro Thr Thr Gly Tyr Arg Trp Met Arg Arg Ser Gln
        210   215   220

Glu Asn Gln Trp Gln Lys Glu Glu Cys Arg Ala Tyr Met Gln Met Leu

4993

```
     225                    230                    235                    240

Arg Lys Leu Phe Thr Ala Ile Arg Ala Leu Phe Leu Ala Val Cys Val
                245                    250                    255

Leu Lys Val Ile Val Ser Leu Val Ser Leu Gly Val Gly Leu Arg Asn
                260                    265                    270

Leu Cys Gly Gln Ser Ser Gln Pro Leu Asn Glu Glu Gly Ser Glu Lys
                275                    280                    285

Arg Leu Leu Gly Glu Asn Ser Val Pro Pro Ser Pro Ser Arg Glu Gln
     290                    295                    300

Thr Ser Thr Ala Ile Val Leu
305                    310
```

```
<210> 5679
<211> 98
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (85)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5679
Ala Gln Trp Leu Pro Leu Glu Glu Arg Gly Ala Glu Thr Glu Thr Lys
  1               5                   10                  15

Val Gln Glu Arg Glu Asn Gly Glu Ser Pro Leu Glu Leu Glu Gln Leu
                20                  25                  30

Asp Gln His His Glu Met Lys Glu Thr Asn Glu Gln Lys Leu His Lys
                35                  40                  45

Ile Ala Asn Glu Leu Leu Leu Thr Glu Arg Ala Tyr Val Asn Arg Leu
     50                  55                  60

Asp Leu Leu Asp Gln Val Phe Tyr Cys Lys Leu Leu Glu Glu Ala Asn
65                  70                  75                  80

Arg Gly Ser Phe Xaa Ala Glu Met Val Ile Lys Ser Phe Leu Ile Phe
                85                  90                  95

His Gln
```

4994

```
<210> 5680
<211> 58
<212> PRT
<213> Homo sapiens

<400> 5680
Ala Arg Lys Glu Ile Gln Tyr Cys Phe Trp Thr Leu Ile Lys Ser Cys
1               5                   10                  15

Ala Ile Asp Thr Tyr Met Ser His Leu Ala Val Leu Arg Arg Ala Ile
            20              25                  30

Ile Thr Leu Gln Leu Thr Leu Glu Asn Ile Leu Ala Phe Glu His Phe
        35              40                  45

Ser Asn Asn Gln Val Asp Ser Arg Gly Ser
    50                  55


<210> 5681
<211> 54
<212> PRT
<213> Homo sapiens

<400> 5681
Ser Leu Thr Ser Lys Pro Glu Thr Ser Glu Ile Leu Lys Ala Asn Leu
1               5                   10                  15

Phe Ser Leu Leu Cys Ile Lys Phe Ile Tyr Leu Lys Cys Tyr Cys Ser
            20              25                  30

Trp Leu Arg Ile Ile Leu Cys Lys Phe Ser Phe Phe Val Val Cys Leu
        35              40                  45

Phe Ala Cys Cys Ser Pro
        50


<210> 5682
<211> 486
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (7)
<223> Xaa equals any of the naturally occurring L-amino acids
```

4995

<220>
<221> SITE
<222> (326)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (400)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (406)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5682
Ser Ser Thr Ala Val Thr Xaa Ala Leu Glu Leu Val Asp Pro Pro Gly
 1   5   10   15

Cys Arg Asn Ser Ala Arg Gly Tyr Ile Gln Tyr Gly Asn Glu Glu Gln
            20   25   30

Arg Lys Gln Ala Phe Glu Glu Leu Arg Asp Asp Leu Val Glu Leu Ser
        35   40   45

Lys Ala Lys Tyr Ser Arg Asn Ile Val Lys Lys Phe Leu Met Tyr Gly
    50   55   60

Ser Lys Pro Gln Ile Ala Glu Ile Ile Arg Ser Phe Lys Gly His Val
65   70   75   80

Arg Lys Met Leu Arg His Ala Glu Ala Ser Ala Ile Val Glu Tyr Ala
            85   90   95

Tyr Asn Asp Lys Ala Ile Leu Glu Gln Arg Asn Met Leu Thr Glu Glu
            100   105   110

Leu Tyr Gly Asn Thr Phe Gln Leu Tyr Lys Ser Ala Asp His Arg Thr
        115   120   125

Leu Asp Lys Val Leu Glu Val Gln Pro Glu Lys Leu Glu Leu Ile Met
    130   135   140

Asp Glu Met Lys Gln Ile Leu Thr Pro Met Ala Gln Lys Glu Ala Val
145   150   155   160

Ile Lys His Ser Leu Val His Lys Val Phe Leu Asp Phe Phe Thr Tyr
            165   170   175

Ala Pro Pro Lys Leu Arg Ser Glu Met Ile Glu Ala Ile Arg Glu Ala

4996

```
              180                    185                      190

Val Val Tyr Leu Ala His Thr His Asp Gly Ala Arg Val Ala Met His
         195                  200                  205

Cys Leu Trp His Gly Thr Pro Lys Asp Arg Lys Val Ile Val Lys Thr
         210                  215                  220

Met Lys Thr Tyr Val Glu Lys Val Ala Asn Gly Gln Tyr Ser His Leu
225                  230                  235          .        240

Val Leu Leu Ala Ala Phe Asp Cys Ile Asp Asp Thr Lys Leu Val Lys
                 245                  250      .               255

Gln Ile Ile Ile Ser Glu Ile Ile Ser Ser Leu Pro Ser Ile Val Asn
             260                  265                  270

Asp Lys Tyr Gly Arg Lys Val Leu Leu Tyr Leu Leu Ser Pro Arg Asp
         275                  280                  285

Pro Ala His Thr Val Arg Glu Ile Ile Glu Val Leu Gln Lys Gly Asp
         290                  295                  300

Gly Asn Ala His Ser Lys Lys Asp Thr Glu Val Arg Arg Arg Glu Leu
305              .    310                  315                  320

Leu Glu Ser Ile Ser Xaa Ala Leu Leu Ser Tyr Leu Gln Glu His Ala
             325                  330                  335

Gln Glu Val Val Leu Asp Lys Ser Ala Cys Val Leu Val Ser Asp Ile
         340                  345                  350

Leu Gly Ser Ala Thr Gly Asp Val Gln Pro Thr Met Asn Ala Ile Ala
         355                  360                  365       .

Ser Leu Ala Ala Thr Gly Leu His Pro Gly Gly Lys Asp Gly Glu Leu
         370                  375                  380

His Ile Ala Glu His Pro Ala Gly His Leu Val Leu Lys Trp Leu Xaa
385                  390                  395                  400

Glu Gln Asp Lys Lys Xaa Lys Glu Asn Gly Arg Glu Gly Cys Phe Ala
             405                  410                  415

Lys Thr Leu Val Glu His Val Gly Met Lys Asn Leu Lys Ser Trp Ala
         420                  425                  430

Ser Val Asn Arg Gly Ala Ile Ile Leu Ser Ser Leu Leu Gln Ser Cys
         435                  440                  445

Asp Leu Glu Val Ala Asn Lys Val Lys Ala Ala Leu Lys Ser Leu Ile
```

4997

```
              450                    455                    460

     Pro Thr Leu Glu Lys Thr Lys Ser Thr Ser Lys Gly Ile Glu Ile Leu
     465                    470                    475                    480

     Leu Glu Lys Leu Ser Thr
                        485
```

```
<210> 5683
<211> 213
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (90)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (138)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5683
Val Leu Asp Val Ala Ala Gly Met Ile Lys Pro Gly Val Thr Thr Glu
  1                5                   10                   15

Glu Ile Asp His Ala Val His Leu Ala Cys Ile Ala Arg Asn Cys Tyr
             20                   25                   30

Pro Ser Pro Leu Asn Tyr Tyr Asn Phe Pro Lys Ser Cys Cys Thr Ser
             35                   40                   45

Val Asn Glu Val Ile Cys His Gly Ile Pro Asp Arg Arg Pro Leu Gln
     50                   55                   60

Glu Gly Asp Ile Val Asn Val Asp Ile Thr Leu Tyr Arg Asn Gly Tyr
 65                   70                   75                   80

His Gly Asp Leu Asn Glu Thr Phe Phe Xaa Gly Glu Val Asp Asp Gly
             85                   90                   95

Ala Arg Lys Leu Val Gln Thr Thr Tyr Glu Cys Leu Met Gln Ala Ile
             100                  105                  110

Asp Ala Val Lys Pro Gly Val Arg Tyr Arg Glu Leu Gly Asn Ile Ile
             115                  120                  125

Gln Lys His Ala Gln Ala Asn Gly Phe Xaa Val Val Arg Ser Tyr Cys
```

4998

```
        130                     135                     140

Gly His Gly Asn Pro Gln Ala Phe Ser Tyr Ser Ser Gln Cys Thr Pro
145                 150                 155                 160

Leu Cys Leu Lys Ile Lys Gln Leu Gly Val Met Glu Val Gly Pro Cys
                165                 170                 175

Ile Tyr Asn Trp Ser Gln Trp Phe Val Glu Gly Gly Trp Gln Asp Gly
                180                 185                 190

Asn Leu Gly Gln Met Val Gly Thr Ala Val Asp Lys Arg Arg Glu Ser
            195                 200                 205

Gly Leu Leu Gln Phe
        210
```

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<210> 5684
<211> 279
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (39)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (251)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (256)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (257)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5684
Thr His Ala Ser Ala His Thr Thr Asn Pro Glu Gln Thr Leu Pro Gly
  1                 5                  10                  15

Thr Asn Leu Thr Gly Phe Leu Ser Pro Val Asp Asn His Met Arg Asn
            20                  25                  30
```

4999

Leu Thr Ser Gln Asp Leu Xaa Tyr Asp Leu Asp Ile Asn Ile Phe Asp
            35   40   45

Glu Ile Asn Leu Met Ser Leu Ala Thr Glu Asp Asn Phe Asp Pro Ile
        50   55   60

Asp Val Ser Gln Leu Phe Asp Glu Pro Asp Ser Asp Ser Gly Leu Ser
65   70   75   80

Leu Asp Ser Ser His Asn Asn Thr Ser Val Ile Lys Ser Asn Ser Ser
                85   90   95

His Ser Val Cys Asp Glu Gly Ala Ile Gly Tyr Cys Thr Asp His Glu
            100   105   110

Ser Ser Ser His His Asp Leu Glu Gly Ala Val Gly Gly Tyr Tyr Pro
        115   120   125

Glu Pro Ser Lys Leu Cys His Leu Asp Gln Ser Asp Ser Asp Phe His
        130   135   140

Gly Asp Leu Thr Phe Gln His Val Phe His Asn His Thr Tyr His Leu
145   150   155   160

Gln Pro Thr Ala Pro Glu Ser Thr Ser Glu Pro Phe Pro Trp Pro Gly
            165   170   175

Lys Ser Gln Lys Ile Arg Ser Arg Tyr Leu Glu Asp Thr Asp Arg Asn
        180   185   190

Leu Ser Arg Asp Glu Gln Arg Ala Lys Ala Leu His Ile Pro Phe Ser
        195   200   205

Val Asp Glu Ile Val Gly Met Pro Val Asp Ser Phe Asn Ser Met Leu
        210   215   220

Ser Arg Tyr Tyr Leu Thr Asp Leu Gln Val Ser Leu Ile Arg Asp Ile
225   230   235   240

Arg Arg Arg Gly Lys Asn Lys Val Ala Ala Xaa Asn Cys Arg Lys Xaa
            245   250   255

Xaa Leu Asp Ile Ile Leu Asn Leu Glu Asp Asp Gly Met Val Thr Trp
            260   265   270

Pro Ala Lys Lys Gly Asn Pro
            275

<210> 5685

5000

<211> 234
<212> PRT
<213> Homo sapiens

<400> 5685
```
Lys Asn Leu Thr Glu Asn Gln Glu Ala Leu Ala Lys Glu Met Arg Ala
 1               5                  10                  15

Asp Ala Asp Ala Tyr Arg Arg Lys Val Asp Leu Glu Glu His Met Phe
            20                  25                  30

His Lys Leu Ile Glu Ala Gly Glu Thr Gln Ser Gln Lys Thr Gln Lys
        35                  40                  45

Val Ile Lys Glu Asn Leu Ala Lys Ala Glu Gln Ala Cys Leu Asn Thr
    50                  55                  60

Asp Trp Gln Ile Gln Ser Leu His Lys Gln Lys Cys Asp Asp Leu Gln
65                  70                  75                  80

Arg Asn Lys Cys Tyr Gln Glu Val Ala Lys Leu Leu Arg Glu Asn Arg
                85                  90                  95

Arg Lys Glu Ile Glu Ile Ile Asn Ala Met Val Glu Glu Glu Ala Lys
           100                 105                 110

Lys Trp Lys Glu Ala Glu Gly Lys Glu Phe Arg Leu Arg Ser Ala Lys
       115                 120                 125

Lys Ala Ser Ala Leu Ser Asp Ala Ser Arg Lys Trp Phe Leu Lys Gln
       130                 135                 140

Glu Ile Asn Ala Ala Val Glu His Ala Glu Asn Pro Cys His Lys Glu
145                 150                 155                 160

Glu Pro Arg Phe Gln Asn Glu Gln Asp Ser Ser Cys Leu Pro Arg Thr
               165                 170                 175

Ser Gln Leu Asn Asp Ser Ser Glu Met Asp Pro Ser Thr Gln Ile Ser
           180                 185                 190

Leu Asn Arg Arg Ala Val Glu Trp Asp Thr Thr Gly Gln Asn Leu Ile
           195                 200                 205

Lys Lys Val Arg Asn Leu Arg Gln Arg Leu Thr Ala Arg Ala Arg His
       210                 215                 220

Arg Cys Gln Thr Pro His Leu Leu Ala Ala
225                 230
```

5001

<210> 5686
<211> 113
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (66)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (84)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5686
Glu Ile Lys Phe Cys Phe Tyr Leu Gly Thr Arg Ala Leu Gln Asp Leu
 1   5   10   15

Ile Pro Ala Tyr Leu Ser Ser Leu Asp Ser Leu Tyr Ser Ser Ile Trp
                20   25   30

Lys Cys Gly Pro Trp Thr Glu Ala Leu Pro Asn Asn Ala Glu His Leu
            35   40   45

Val Leu Pro Phe Ala Arg Met Val Leu Met Val Pro Lys Ile Thr Ala
        50   55   60

Ser Xaa Pro Lys Phe Arg Thr Gln Ile Thr Leu Trp Arg Arg Pro Gln
65   70   75   80

Pro Leu Ala Xaa Ala Phe Lys Ala Leu Arg Asp Leu Asp Thr Arg Leu
                85   90   95

Ala Leu Ile Tyr Ile Tyr Phe Lys Ser Ile Ser Ser Leu Ser His Ala
            100   105   110

His

<210> 5687
<211> 78
<212> PRT
<213> Homo sapiens

<400> 5687
Leu Asp Ile Lys Thr Ser Tyr Ser Leu Asn Pro Lys Ala Lys Leu Met
 1   5   10   15

5002

```
Ser Arg Ala Asn Gln Ser Ser Trp Gly Gln Asn Arg Thr Lys Thr Tyr
            20              25              30

Leu Met Gln Gly Ile Glu Ala Arg Pro Lys Thr Gly Gln Pro Asn Arg
            35              40              45

Met Gly His Leu Pro Pro Leu Met Pro Ala Cys Pro Ser Val Ile Ile
        50              55              60

Asn Ser Ala Pro Phe His Ser Pro Lys Ser Pro Val Gln Thr
65              70              75
```

```
<210> 5688
<211> 43
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (10)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (11)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5688
Leu Ser Leu Thr Lys Gly Asn Lys Ser Xaa Xaa Ser Thr Ala Val Ala
  1               5              10              15

Ala Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn Ser Ala Arg
            20              25              30

Ala Ser Asn Leu Tyr Phe Tyr Leu Leu Cys Ile
        35              40
```

```
<210> 5689
<211> 51
<212> PRT
<213> Homo sapiens

<400> 5689
Thr Thr Tyr Cys Phe Pro Leu Phe Gln Gly Asp Ala Val Asp Tyr Gln
  1               5              10              15
```

5003

```
Lys Gln Leu Lys Gln Met Ile Lys Asp Leu Ala Lys Glu Lys Asp Lys
         20              25              30

Thr Glu Lys Glu Leu Pro Lys Met Ser Gln Val Trp Thr Phe Phe Ser
         35              40              45

Ala Glu Asn
    50




<210> 5690
<211> 35
<212> PRT
<213> Homo sapiens

<400> 5690
Glu Ala Leu Val Asp Phe Leu Tyr Trp Tyr Phe Arg Ser Leu Leu Ser
 1               5               10              15

Phe Leu Thr Glu Val Gly Ala Asn Glu Leu Ser Ile Leu Ser Thr Trp
             20              25              30

Leu Ile Lys
        35




<210> 5691
<211> 32
<212> PRT
<213> Homo sapiens

<400> 5691
Gly Asn Lys Ser Trp Gly Ser Thr Ala Val Thr Thr Ala Leu Glu Leu
 1               5               10              15

Val Asp Pro Pro Gly Cys Arg Asn Ser Ala Arg Ala Tyr Lys Leu Ser
             20              25              30




<210> 5692
<211> 74
<212> PRT
<213> Homo sapiens

<400> 5692
```

5004

```
Gly Thr Leu Leu Lys Phe Leu Cys Lys Leu Gly Leu Phe Phe Ser Leu
1               5                   10              15

Ser Cys Val Ser Arg Thr Val Gly Val Pro Gly Leu Leu Ser Cys Trp
              20              25              30

Val Gln Ala Ser Arg Ile Leu Arg Arg Cys Glu Glu Glu Val Arg Lys
          35              40              45

Ile Gly Gly Asn Arg Lys Glu Lys Glu Ile Trp Pro Arg Phe Trp Gly
    50              55              60

Glu Lys Val Trp Gly Lys Ser Lys Gly Asn
65              70
```

```
<210> 5693
<211> 50
<212> PRT
<213> Homo sapiens

<400> 5693
Glu Asn Ala Cys Lys Ala Leu Gly Ile Val His Asp Val Asn Thr Gln
1               5                   10              15

Met Leu Leu Lys Ser Ile Asn Val Asn Tyr Phe Leu Ala His Phe Ser
              20              25              30

Gly Leu Ile Ser Pro Val Lys Met Ile His Ser Ile Leu Phe Asn Gly
          35              40              45

Phe Met
    50
```

```
<210> 5694
<211> 147
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (35)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (92)
<223> Xaa equals any of the naturally occurring L-amino acids
```

5005

<220>
<221> SITE
<222> (134)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (140)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5694
Gly Leu Gly Cys Ala Leu Ala Gln Val Leu Cys Gly Asp Ala Arg Gln
  1   5   10   15

His Ile Leu Leu Arg Asp Asp Thr Leu Ser Gly Gln His Arg Pro Val
                20   25   30

Thr Ile Xaa Ser Leu Ala Thr Ser Leu Ser Pro Ala Ser Pro Ser Leu
            35   40   45

Asp Thr Arg Pro Gln Thr Pro Gly Ser Gly Arg Gly Gly Trp Thr Ser
    50   55   60

Leu His Thr Pro Ala Gly Arg Gly Gln Val Pro Arg Ser Pro Met Trp
 65   70   75   80

Arg Ala Gly Pro Gly Ala Ala Gln Ala Gly Gly Xaa Asn Trp Gly Leu
            85   90   95

Arg Val Leu Arg Arg Arg Val Lys Ile Ile Lys Gly Ala Thr Glu Ser
            100   105   110

Lys Arg Arg Glu Gly Leu Val Pro Asn Ser Cys Ser Pro Gly Asp Pro
        115   120   125

Leu Val Leu Glu Arg Xaa Pro Pro Arg Trp Ser Xaa Ser Phe Val Pro
    130   135   140

Leu Val Arg
145

<210> 5695
<211> 58
<212> PRT
<213> Homo sapiens

<400> 5695
Val Phe Ser Gly Met His Arg Phe Ile Ile Phe Ser Thr Leu Lys Met

5006

```
      1               5                10               15
```

Arg Ala Phe Lys Ser Val His Tyr Leu Tyr Ser Pro Val Leu Ser Ile
```
            20              25              30
```

Val Tyr Ile Ile Tyr Met Ile Lys Glu Asn Met His Asn Gln Thr Ser
```
           35              40              45
```

Leu Asn Ile Val Phe Ala Pro Asp Glu Gln
```
         50              55
```

<210> 5696
<211> 54
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (22)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5696
Thr Arg Cys Lys Arg Phe Val Asn Ser Leu Ala Pro Lys Leu Ser His
```
  1               5                10               15
```

Trp Arg Arg Asp Phe Xaa His Tyr Ala Glu Ser Gly Trp Val Glu Phe
```
            20              25              30
```

Arg Thr Ala Thr Leu Val Ala Glu Glu Leu His Gln Leu Gly Tyr Ser
```
           35              40              45
```

Leu Ala Leu Gly Arg Glu
```
         50
```

<210> 5697
<211> 57
<212> PRT
<213> Homo sapiens

<400> 5697
Gln Gln Phe Gly Arg Asp Gly Ser Pro Ala Ala Tyr Val Gly Gly Pro
```
  1               5                10               15
```

Ser Val Gly Leu Arg Val Arg Val Ala Met Ala Val Asp Ile Thr Leu
```
            20              25              30
```

Leu Phe Arg Ala Ser Val Lys Thr Val Lys Thr Arg Asn Lys Arg Trp

5007

```
            35                    40                    45

Glu Trp Arg Trp Ala Thr Gly Ser Met
    50                    55
```

```
<210> 5698
<211> 92
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (17)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5698
Gln Lys Ser Pro Ser Val Glu Asp Gly Leu Lys Gly Arg Asp Gln Thr
 1               5                  10                  15

Xaa Met Asp Thr Asn Pro Lys Thr Glu Asp Ala Pro Cys Leu Pro His
            20                  25                  30

Glu Ala Tyr Leu Ser Ala Cys Val Ser Met Ile Ala Gly Ile Glu Leu
            35                  40                  45

Leu Gly Thr Ser Arg Met Ile Tyr Leu Ala Ile Cys Phe Leu His Ser
    50                  55                  60

Lys Asn Gln Asn Gly Pro Val Ile Pro Asn Arg Glu Asn Arg Ala Asn
 65                  70                  75                  80

Ser Leu Phe Ser Pro Leu Pro Ser Glu Ala Ser Phe
                85                  90
```

```
<210> 5699
<211> 122
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (108)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5699
Gly Arg Gly Trp Gly Trp Glu Gly Thr Val Leu Pro Gly Glu Ala Glu
 1               5                  10                  15
```

5008

```
Glu Asp Arg Val Gly Leu Arg Ala Arg Arg Arg Pro Ser Arg Leu Leu
            20              25              30

Ala Pro Leu Ala Trp Cys Pro Ala Pro Gly Arg Glu Ala Ala Gly Leu
        35              40              45

Asp Arg Ala Gly Leu Pro Gly Gly Ala Arg Ala Leu Ala Ala Gly Arg
    50              55              60

Pro Leu Leu Ser Ala Met Ala Gly Leu His Pro Trp Val Ile Phe Ser
65              70              75              80

Gly Pro Leu Trp Pro Leu Leu Thr Pro Arg Glu Gln Thr Thr Arg Thr
            85              90              95

Thr Gln Glu Gln Ile Lys Ser Arg Pro Gln Pro Xaa Arg Glu Arg Ala
            100             105             110

Ser Ile Leu Phe Ala Pro Arg Val Ala Val
        115             120
```

```
<210> 5700
<211> 82
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (38)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (40)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5700
```

```
Ala Glu Leu Thr Pro Ser Ser Lys Leu Thr Val Asp Thr Asp Thr Leu
1               5               10              15

Thr Pro Ser Ser Thr Leu Cys Glu Asn Ser Val Ser Glu Leu Leu Thr
            20              25              30

Pro Ala Lys Ala Glu Xaa Ser Xaa His Pro Asn Ser Asp Phe Phe Gly
        35              40              45

Gln Glu Gly Glu Thr Gln Phe Gly Phe Pro Asn Ala Ala Gly Asn His
    50              55              60
```

5009

```
Gly Ser Gln Lys Glu Arg Asn Leu Ile Thr Val Thr Gly Ser Ser Phe
 65                  70              75                  80
```

```
Leu Val
```

<210> 5701
<211> 316
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (14)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (25)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5701
```
Trp Ile Pro Arg Ala Ala Gly Ile Arg His Glu Thr Gly Xaa Asn Asn
  1           5               10                  15
```

```
Thr Lys Ala Phe Glu Val Pro Ala Xaa Ala Asn Phe Leu Asn Ser Asn
              20              25                  30
```

```
Asp Val Phe Val Leu Lys Thr Gln Ser Cys Cys Tyr Leu Trp Cys Gly
          35              40                  45
```

```
Lys Gly Cys Ser Gly Asp Glu Arg Glu Met Ala Lys Met Val Ala Asp
      50              55                  60
```

```
Thr Ile Ser Arg Thr Glu Lys Gln Val Val Val Glu Gly Gln Glu Pro
 65                  70              75                  80
```

```
Ala Asn Phe Trp Met Ala Leu Gly Gly Lys Ala Pro Tyr Ala Asn Thr
              85              90                  95
```

```
Lys Arg Leu Gln Glu Glu Asn Leu Val Ile Thr Pro Arg Leu Phe Glu
             100             105             110
```

```
Cys Ser Asn Lys Thr Gly Arg Phe Leu Ala Thr Glu Ile Pro Asp Phe
             115             120             125
```

```
Asn Gln Asp Asp Leu Glu Glu Asp Asp Val Phe Leu Leu Asp Val Trp
             130             135             140
```

5010

```
Asp Gln Val Phe Phe Trp Ile Gly Lys His Ala Asn Glu Glu Glu Lys
145             150             155                 160

Lys Ala Ala Ala Thr Thr Ala Gln Glu Tyr Leu Lys Thr His Pro Ser
            165             170                 175

Gly Arg Asp Pro Glu Thr Pro Ile Ile Val Val Lys Gln Gly His Glu
        180             185                 190

Pro Pro Thr Phe Thr Gly Trp Phe Leu Ala Trp Asp Pro Phe Lys Trp
        195             200             205

Ser Asn Thr Lys Ser Tyr Glu Asp Leu Lys Ala Glu Leu Gly Asn Ser
    210             215             220

Arg Asp Trp Ser Gln Ile Thr Ala Glu Val Thr Ser Pro Lys Val Asp
225             230             235             240

Val Phe Asn Ala Asn Ser Asn Leu Ser Ser Gly Pro Leu Pro Ile Phe
            245             250             255

Pro Leu Glu Gln Leu Val Asn Lys Pro Val Glu Glu Leu Pro Glu Gly
        260             265             270

Val Asp Pro Ser Arg Lys Glu Glu His Leu Ser Ile Glu Asp Phe Thr
        275             280             285

Gln Ala Phe Gly Met Thr Pro Ala Ala Phe Ser Ala Leu Pro Arg Trp
    290             295             300

Lys Gln Gln Asn Leu Lys Lys Glu Lys Gly Leu Phe
305             310             315
```

<210> 5702
<211> 99
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (58)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (84)
<223> Xaa equals any of the naturally occurring L-amino acids

5011

```
<220>
<221> SITE
<222> (85)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5702
Gly Lys Lys Glu Glu Asn Asn Pro Val Ser Leu Glu Val Gly Val Trp
 1               5                  10                  15

Val Gly Thr Gly Asp Pro Gly Val Val Met Met Lys Thr Arg Ala Gly
                20                  25                  30

Phe Gly Gly Arg Leu Arg Leu Phe Arg Ser Leu Leu Ser Pro Pro Pro
            35                  40                  45

Ser Arg Ser Leu Pro Pro Pro Pro His Xaa Ser Ala Gly Lys Ala Ala
        50                  55                  60

Cys Ala Ala Pro Gly Gly Glu Met Val Asp Ala His Glu Leu Cys Met
65                  70                  75                  80

Trp Phe Leu Xaa Xaa Leu Ser Val Leu Gly Pro Val Phe Gly Gly Thr
                85                  90                  95

Pro Lys Gly


<210> 5703
<211> 292
<212> PRT
<213> Homo sapiens

<400> 5703
Leu Gln Ala Ile Pro Ala Lys Lys Ala Pro Leu Gln Leu Leu Ser Arg
 1               5                  10                  15

Leu Cys Gly Asp His Leu Gln Ala Ile Pro Ala Lys Lys Ala Pro Ala
                20                  25                  30

Gly Gln Glu Glu Pro Gly Thr Pro Pro Ser Ser Pro Leu Ser Ala Glu
            35                  40                  45

Gln Leu Asp Arg Ile Gln Arg Asn Lys Ala Ala Ala Leu Leu Arg Leu
        50                  55                  60

Ala Ala Arg Asn Val Pro Val Gly Phe Gly Glu Ser Trp Lys Lys His
65                  70                  75                  80

Leu Ser Gly Glu Phe Gly Lys Pro Tyr Phe Ile Lys Leu Met Gly Phe
```

5012

```
                 85                    90                    95
Val Ala Glu Glu Arg Lys His Tyr Thr Val Tyr Pro Pro Pro His Gln
            100               105               110

Val Phe Thr Trp Thr Gln Met Cys Asp Ile Lys Asp Val Lys Val Val
            115               120               125

Ile Leu Gly Gln Asp Pro Tyr His Gly Pro Asn Gln Ala His Gly Leu
    130               135               140

Cys Phe Ser Val Gln Arg Pro Val Pro Pro Pro Ser Leu Glu Asn
145               150               155               160

Ile Tyr Lys Glu Leu Ser Thr Asp Ile Glu Asp Phe Val His Pro Gly
                165               170               175

His Gly Asp Leu Ser Gly Trp Ala Lys Gln Gly Val Leu Leu Leu Asn
            180               185               190

Ala Val Leu Thr Val Arg Ala His Gln Ala Asn Ser His Lys Glu Arg
        195               200               205

Gly Trp Glu Gln Phe Thr Asp Ala Val Val Ser Trp Leu Asn Gln Asn
    210               215               220

Ser Asn Gly Leu Val Phe Leu Leu Trp Gly Ser Tyr Ala Gln Lys Lys
225               230               235               240

Gly Ser Ala Ile Asp Arg Lys Arg His His Val Leu Gln Thr Ala His
                245               250               255

Pro Ser Pro Leu Ser Val Tyr Arg Gly Phe Phe Gly Cys Arg His Phe
            260               265               270

Ser Lys Thr Asn Glu Leu Leu Gln Lys Ser Gly Lys Lys Pro Ile Asp
        275               280               285

Trp Lys Glu Leu
    290
```

```
<210> 5704
<211> 103
<212> PRT
<213> Homo sapiens

<400> 5704
Phe Leu Arg Cys Val Asp Leu Asp Gly Arg Cys Asp Met Leu Val Phe
    1               5               10               15
```

5013

Leu Thr Cys Ile Tyr Leu Arg His Cys Tyr Arg Asp Thr Val Val Thr
            20   25   30

Phe Trp Gly Thr Val Phe Gly Glu Arg Gly Val His Leu Asp Leu Cys
            35   40   45

Gly Thr Val Gln Ile Val Met Trp Leu His Arg Lys Pro Cys Ala Lys
         50   55   60

Asn Lys Leu His Leu Lys Asn Ile Lys Asn Leu Arg Phe Met Cys Phe
 65   70   75   80

Leu Ser Phe Ser Leu Arg Lys Gln Lys Ser Ser Gly Leu Arg Tyr Leu
            85   90   95

Thr Leu His Val Lys Thr Leu
            100

<210> 5705
<211> 173
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (131)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (146)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (154)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (157)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5705
Ala Ser Met Ala Thr Ala Ala Thr Glu Glu Pro Phe Pro Phe His Gly
  1   5   10   15

Leu Leu Pro Lys Lys Glu Thr Gly Ala Ala Ser Phe Leu Cys Arg Tyr

5014

```
             20                    25                    30
Pro Glu Tyr Asp Gly Arg Gly Val Leu Ile Ala Val Leu Asp Thr Gly
         35              40              45
Val Asp Pro Gly Ala Pro Gly Met Gln Val Thr Thr Asp Gly Lys Pro
         50              55              60
Lys Ile Val Asp Ile Ile Asp Thr Thr Gly Ser Gly Asp Val Asn Thr
65              70              75              80
Ala Thr Glu Val Glu Pro Lys Asp Gly Glu Ile Val Gly Leu Ser Gly
             85              90              95
Arg Val Leu Lys Ile Pro Ala Ser Trp Thr Asn Pro Ser Gly Lys Tyr
             100             105             110
His Ile Gly Ile Lys Asn Gly Tyr Asp Phe Tyr Pro Lys Ala Leu Lys
             115             120             125
Glu Arg Xaa Gln Lys Glu Arg Lys Glu Lys Ile Trp Asp Pro Val His
         130             135             140
Arg Xaa Ala Leu Ala Glu Ala Cys Arg Xaa Gln Glu Xaa Phe Asp Val
145             150             155             160
Ala Asn Asn Gly Ser Ser Gln Ala Asn Lys Leu Ile Lys
             165             170
```

```
<210> 5706
<211> 77
<212> PRT
<213> Homo sapiens

<400> 5706
Thr Leu Val Ala Glu Ala Thr Met Asp Leu Leu Leu Gly Asp Ser Trp
  1               5              10              15

Gly Ser Pro Arg Pro Pro Arg Ala Glu Arg Gly Asp Glu Glu Phe Gly
             20              25              30

Thr Val Gly Glu Glu Met Gly Arg Asp Gly Ile Ser Gly Ser Gln Ser
             35              40              45

Gly Trp Asp Thr His Ala Gln Leu Leu His Trp Trp Gly Val Gly His
         50              55              60

Thr Leu Phe Leu Thr Gly His Asp Leu Gln Glu Glu Lys
65              70              75
```

5015

<210> 5707
<211> 53
<212> PRT
<213> Homo sapiens

<400> 5707
Ile Gln His Leu Met Gln Val Ser Ser Trp Val Val Phe Gln Leu Val
1   5   10   15

Trp Asn Ser Leu Val Leu Thr Gln Thr Gly Ile Lys His Tyr Phe Arg
                20   25   30

Phe Ser Leu Cys Gln Phe Leu Ser Ser Tyr Asn His Val Asn Gln Asp
            35   40   45

Val Arg Thr Ser Ile
        50

<210> 5708
<211> 64
<212> PRT
<213> Homo sapiens

<400> 5708
Gln Pro Gln Cys Pro Ala Ser Leu Thr Ser Ser Phe Leu Cys Pro Leu
1   5   10   15

Cys Gly Ser Leu Leu Leu Val Ser Ala Phe Ser Met Leu Arg Thr Lys
                20   25   30

Ser Pro Ile His Cys Leu Cys Ser Arg Lys Leu Gln Lys Asn Lys Glu
            35   40   45

Pro Asn Tyr Gln Asn His Ile Lys Ser Pro Leu Phe Cys Leu Gly Ile
    50   55   60

<210> 5709
<211> 39
<212> PRT
<213> Homo sapiens

5016

<400> 5709
Ala Ala Phe Phe Leu Leu Arg Leu Ser Leu Phe Val Leu Leu Pro Lys
1   5   10   .15

Arg Gln Leu Pro Glu Phe Gly Cys Leu Asn Tyr Asn Leu Cys Arg Asn
            20   25   30

Ser Ser Val Asn Thr Phe Lys
        35

<210> 5710
<211> 112
<212> PRT
<213> Homo sapiens

<400> 5710
Gln Leu Gln Leu Phe Cys Leu Gly Phe Gln Leu Phe Leu Val Arg Val
1   5   10   15

Cys Ser Leu Met Ile Trp Ile Tyr Phe Ala Phe Ile Phe Gln Arg Leu
            20   25   30

His Leu Ile Pro Gly Lys Ser Ser Ala Arg Gln Val Ser Gly Phe Ser
            35   40   45

Leu Leu Ser Phe Asn Pro Ser Asn Thr Ile Phe Val Lys Leu Asp Trp
    50   55   60

Trp Cys Phe Ile Gln Leu Ile Tyr Ser Ala Tyr Leu Phe Glu Lys Arg
65   70   75   80

Leu Leu Glu Ile Asp Asp Val Phe Val Pro Val Ile Leu Lys Val Val
            85   90   95

Gly Ala Arg Ile Glu Phe His Ser Gly Ile Gly Phe Gly Ser Gly Leu
            100   105   110

<210> 5711
<211> 62
<212> PRT
<213> Homo sapiens

<400> 5711
Trp Val Met Glu Tyr Asn Leu Glu Lys Lys Arg Asn Lys Arg Asp Cys

5017

```
     1                5                    10                      15
Val Ser Pro Cys Cys Pro Gly Trp Ser Arg Thr Ser Glu Leu Lys Gln
             20                    25                30

Ser Thr Leu Leu Ser Leu Gln Lys Cys Trp Asp Tyr Arg His Glu Thr
             35                    40                45

Pro Ser Pro Ala Ile Arg Phe Leu Phe Tyr Ile Tyr Met Lys
     50                    55                60
```

<210> 5712
<211> 194
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (101)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (113)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (173)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (192)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5712
```
Pro Met Arg Arg Pro Arg Gly Glu Pro Gly Pro Arg Ala Pro Arg Pro
     1                5                    10                      15

Thr Glu Gly Ala Thr Cys Ala Gly Pro Gly Glu Ser Trp Ser Pro Ser
                 20                    25                30

Pro Asn Ser Met Leu Arg Val Leu Leu Ser Ala Gln Thr Ser Pro Ala
             35                    40                45

Arg Leu Ser Gly Leu Leu Leu Ile Pro Pro Val Gln Pro Cys Cys Leu
     50                    55                60
```

5018

```
Gly Pro Ser Lys Trp Gly Asp Arg Pro Val Gly Gly Pro Ser Ala
 65          70              75              80

Gly Pro Val Gln Gly Leu Gln Arg Leu Leu Glu Gln Ala Lys Ser Pro
             85              90              95

Gly Glu Leu Leu Xaa Trp Leu Gly Gln Asn Pro Ser Lys Val Arg Ala
            100             105             110

Xaa His Tyr Ser Val Ala Leu Arg Arg Leu Gly Gln Leu Leu Gly Ser
        115             120             125

Arg Pro Arg Pro Pro Val Glu Gln Val Thr Leu Gln Asp Leu Ser
    130             135             140

Gln Leu Ile Ile Arg Asn Cys Pro Ser Phe Asp Ile His Thr Ile His
145             150             155             160

Val Cys Leu His Leu Ala Val Leu Leu Gly Phe Pro Xaa Asp Gly Pro
            165             170             175

Leu Val Cys Ala Leu Glu Gln Glu Pro Lys Leu Arg Leu Leu Arg Xaa
            180             185             190

His Leu
```

```
<210> 5713
<211> 275
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (22)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (47)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (101)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5713
Arg Trp Ala Thr Tyr Gly Arg Thr Gly Gly Leu Pro Asn Val Gly Lys
```

5019

1					5					10					15	

Ser Ser Thr Ile Asn Xaa Ile Met Gly Asn Lys Lys Val Ser Val Ser
           20   25   30

Ala Thr Pro Gly His Thr Lys His Phe Gln Thr Leu Tyr Val Xaa Pro
           35   40   45

Gly Leu Cys Leu Cys Asp Cys Pro Gly Leu Val Met Pro Ser Phe Val
           50   55   60

Ser Thr Lys Ala Glu Met Thr Cys Ser Gly Ile Leu Pro Ile Asp Gln
65   70   75   80

Met Arg Asp His Val Pro Pro Val Ser Leu Val Cys Gln Asn Ile Pro
               85   90   95

Arg His Val Leu Xaa Ala Thr Tyr Gly Ile Asn Ile Ile Thr Pro Arg
           100   105   110

Glu Asp Glu Asp Pro His Arg Pro Pro Thr Ser Glu Glu Leu Leu Thr
           115   120   125

Ala Tyr Gly Tyr Met Arg Gly Phe Met Thr Ala His Gly Gln Pro Asp
          130   135   140

Gln Pro Arg Ser Ala Arg Tyr Ile Leu Lys Asp Tyr Val Ser Gly Lys
145   150   155   160

Leu Leu Tyr Cys His Pro Pro Pro Gly Arg Asp Pro Val Thr Phe Gln
          165   170   175

His Gln His Gln Arg Leu Leu Glu Asn Lys Met Asn Ser Asp Glu Ile
          180   185   190

Lys Met Gln Leu Gly Arg Asn Lys Lys Ala Lys Gln Ile Glu Asn Ile
          195   200   205

Val Asp Lys Thr Phe Phe His Gln Glu Asn Val Arg Ala Leu Thr Lys
          210   215   220

Gly Val Gln Ala Val Met Gly Tyr Lys Pro Gly Ser Gly Val Val Thr
225   230   235   240

Ala Ser Thr Ala Ser Ser Glu Asn Gly Ala Gly Lys Pro Trp Lys Lys
               245   250   255

His Gly Asn Arg Asn Lys Lys Glu Lys Ser Arg Arg Leu Tyr Lys His
          260   265   270

Leu Asp Met

5020

275

```
<210> 5714
<211> 94
<212> PRT
<213> Homo sapiens

<400> 5714
His Glu Leu Glu His Thr Leu Val Met Ala Gly Pro Asn Ser Lys Arg
 1               5                  10                  15

Gln Thr Gln Gly Val His Val Pro Arg Met Leu Gln Pro Ala Leu Gly
            20              25                  30

Pro Arg Val Ser His Glu Asp Trp Pro Pro Leu Cys Thr Gly Ala Arg
            35              40                  45

Gly Gly Gln Val Pro Val Leu Ala Arg Leu Leu Ala Ala Val Pro Thr
    50              55              60

Glu Thr Thr Ala Leu Leu Cys Phe Pro Arg Arg Gly Ala Trp Leu Leu
65              70                  75                  80

Ala Val Arg Ala Gly Leu Phe Gln Lys Val Gly Pro Cys Pro
                85                  90
```

```
<210> 5715
<211> 47
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (41)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5715
Gly Gln Val Ala Ala Leu Ser Pro Arg Val Val Pro Gly Arg Leu Arg
 1               5                  10                  15

Ser Ser Pro Lys Arg Gly Cys Ser Ser Gly Lys Gln Val Asn Ser Trp
            20              25                  30

Tyr Phe Thr Phe Leu Gly Asn Thr Xaa Asn Glu Asp Leu Gln Leu
            35              40                  45
```

5021

```
<210> 5716
<211> 71
<212> PRT
<213> Homo sapiens

<400> 5716
Pro Lys Thr Val Ser Lys Met His Ile Lys Ser Ile Ile Leu Glu Gly
 1               5                  10                  15

Phe Lys Ser Tyr Ala Gln Arg Thr Glu Val Asn Gly Phe Asp Pro Leu
                20                  25                  30

Phe Asn Ala Ile Thr Gly Leu Asn Gly Ser Gly Lys Ser Asn Ile Leu
        35                  40                  45

Asp Ser Ile Cys Phe Leu Leu Gly Ile Ser Asn Leu Ser Gln Val Arg
    50                  55                  60

Ala Ser Lys Phe Thr Arg Phe
65                  70
```

```
<210> 5717
<211> 52
<212> PRT
<213> Homo sapiens

<400> 5717
Pro Thr Tyr Gly Cys Trp Asp Asn Ser Pro Ser Arg Met Tyr Cys Cys
 1               5                  10                  15

Ser Ala Gln Asp Ser Lys Met Asp Tyr Lys Arg Arg Phe Leu Leu Gly
                20                  25                  30

Gly Ser Lys Gln Lys Val Gln Gln His Ser Asn Thr Arg Cys Leu Ser
        35                  40                  45

Trp Ala Glu His
        50
```

```
<210> 5718
<211> 136
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
```

5022

<222> (53)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5718
Phe Gly Thr Lys Glu Thr Val Asn Lys Asp Ile Cys Glu Lys Gly Thr
 1   5   10   15

Ile Gln Gln Met Ile Gly Ile Phe Lys Asn Ile Ile Ser Lys Pro Asn
             20   25   30

Glu Lys Glu Glu Ala Ile Val Leu Glu Ile Gln Ser Asp Ile Leu Leu
         35   40   45

Ile Leu Ser Gly Xaa Cys Glu Asn His Ile Gln Arg Lys Glu Ile Phe
     50   55   60

Gly Thr Glu Gly Val Asp Ile Val Leu His Val Met Lys Thr Asp Pro
 65   70   75   80

Arg Lys Leu Gln Ser Gly Leu Gly Tyr Asn Val Leu Leu Phe Ser Thr
             85   90   95

Leu Asp Ser Ile Trp Cys Cys Ile Leu Gly Cys Tyr Pro Ser Glu Asp
             100   105   110

Tyr Phe Leu Glu Lys Glu Gly Ile Phe Leu Leu Leu Asp Leu Leu Ala
         115   120   125

Leu Asn Gln Lys Asn Ser Val Ile
     130   135

<210> 5719
<211> 67
<212> PRT
<213> Homo sapiens

<400> 5719
Lys Ser Leu Gly Glu Lys Lys Ser His Thr Val Phe Leu Ala Ile Arg
 1   5   10   15

Ile Met Lys Thr Asn Phe Gly Glu Cys Glu Gln Leu Arg Gln Thr Gly
             20   25   30

His Arg Leu Gln Gly Leu Thr Ser Leu Thr Val Thr Asp Asn Leu Gly
         35   40   45

Met Asp Pro Thr Ala Asp Val Ser Lys Gly His Arg Gly Glu Leu Val
     50   55   60

5023

Thr Ser Asn
 65

<210> 5720
<211> 47
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (4)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5720
Leu Ile Arg Xaa Gln Ser Trp Ser Ser Thr Ala Val Ala Ala Ala Leu
 1   5   10   15

Glu Leu Val Asp Pro Pro Gly Cys Arg Asn Ser Ala Arg Gly Leu Leu
             20   25   30

Gln Lys Gly Tyr Ile Ile Leu Ser Leu Val Ile Gln Arg Tyr Ser
             35   40   45

<210> 5721
<211> 100
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (26)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5721
Val Leu Leu Asn Trp Ile Ile Gln Tyr Tyr Gly Tyr Asn Val Ile Gln
 1   5   10   15

Tyr Tyr Gly Gly Ile Cys Val Ile Ile Xaa Ile Asn Asn Thr Gly Glu
             20   25   30

Ile Ser Gly Arg Gln Lys Ser Glu Met Ala Leu Thr Glu Phe Lys Ser
             35   40   45

Arg Cys Trp Glu Gly Ser Thr Pro Leu Gly Gly Cys Gly Gly Gly Ser
     50   55   60

Ile Ser Leu Pro Ser Pro Thr Tyr Gly Leu Cys Ile Pro Trp Leu Val

5024

```
        65                      70                    75                      80

Ala Pro Ser Ser Ile Phe Lys Ala Ser Ser Val Val Leu Pro Ile Ser
                    85                    90                    95

Leu Ile Phe Leu
            100




<210> 5722
<211> 63
<212> PRT
<213> Homo sapiens

<400> 5722
Ala Arg Ala Glu Ile Gly Phe Leu Glu Gly Ser Ser Gly Lys Trp Pro
 1               5                   10                  15

Asp Ser Ile Leu Arg Leu Cys Met Thr Ser Arg Tyr Tyr Pro Val Gly
            20                    25                    30

Val Pro Trp Gly Ala Met Ala Ala Ile Arg Cys Arg Leu Gly Tyr Ile
        35                    40                    45

Lys Trp Ala Glu Gly Thr Cys Leu Gly Arg Trp Gly Gly Leu Gln
    50                    55                    60




<210> 5723
<211> 38
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (5)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5723
Phe Met Ile Leu Xaa Tyr Lys Ser Tyr Glu Phe Leu Glu Leu Gln Lys
 1               5                   10                  15

Trp Pro Gly Val Val Ala His Thr Val Asn Pro Gly Thr Leu Gly Gly
            20                    25                    30

Gln Gly Arg Arg Thr Thr
            35
```

```
<210> 5724
<211> 95
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (37)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (73)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (89)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5724
Asp Glu Glu Val Tyr Ile Trp Val Ser Phe Leu His Pro Val Glu Ser
 1               5                   10                  15

Ser Arg Lys Ser Gly Pro Ile Leu Ser Cys Ser Phe Thr Glu Lys Leu
            20                  25                  30

Leu Ser Pro Phe Xaa Phe Leu Leu Asn Glu Leu Trp Ser Pro Asp Leu
            35                  40                  45

Leu Cys Lys Gly Gln Pro Asp Pro Pro Phe Met His Ser Pro Ser Glu
    50                  55                  60

Ser Leu Leu Val Ala Trp Leu Glu Xaa Ser Gly Ile Phe Glu Phe Trp
65                  70                  75                  80

Pro Leu Gln Leu Ser Trp Gly Pro Xaa Gly Gly Leu Pro Pro Leu
                85                  90                  95


<210> 5725
<211> 80
<212> PRT
<213> Homo sapiens

<400> 5725
His Glu Gly Val Ser Thr Ala Pro Ser Gln Lys Phe Tyr Ile Phe Tyr
 1               5                   10                  15
```

5026

Arg Gly Lys Lys Thr Leu Tyr Thr Met Ala Arg Pro Phe Leu Ser Gln
         20   25   30

Lys Ala Gly Pro Thr Glu Gln Phe Lys Leu Cys Ser Ser Arg Leu Lys
         35   40   45

Ala Gly Phe Val Glu Glu Leu Gln Leu Leu Ser Arg Ala Asn Pro Val
    50   55   60

Val Ile Gln Gly Glu Cys Lys Leu Ala Ser Leu Asp Arg Asp Gln Ser
65   70   75   80

<210> 5726
<211> 51
<212> PRT
<213> Homo sapiens

<400> 5726
Ile Gln Ile Asn Phe His Ala His Leu Tyr Leu Lys Asp Ser Asp Phe
1   5   10   15

Ser Leu Ser Gln Leu Arg Asn Ile Arg Leu Asn Pro Ala Val Leu Gln
         20   25   30

Met Phe Leu Leu Arg Leu Lys His Gln Leu Ile Asn Arg Tyr Leu Phe
         35   40   45

Ile Phe Asn
    50

<210> 5727
<211> 38
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5727
Pro Xaa Ser Ser Trp Asp Tyr Arg His Thr Pro Pro Cys Pro Ala His
1   5   10   15

5027

```
Phe Cys Ile Phe Ser Arg Asp Gly Val Ser Pro Cys Trp Pro Gly Trp
            20                  25              30

Leu His Leu Leu Thr Leu
            35



<210> 5728
<211> 112
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (6)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (8)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (109)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5728
Ser Lys Asp Gly Ala Xaa Cys Xaa Lys Ser Lys Asp Leu Leu Lys Gln
  1                 5                  10              15

Arg Tyr Leu Phe Ala Lys Ala Gly Tyr Pro Leu Arg Arg Ser Gln Ser
            20                  25              30

Leu Pro Thr Thr Leu Leu Ser Pro Val Arg Val Val Ser Ser Val Asn
            35                  40              45

Val Arg Leu Ser Pro Gly Lys Glu Thr Arg Cys Ser Pro Pro Ser Phe
     50                  55              60

Thr Tyr Lys Tyr Thr Pro Glu Glu Glu Gln Glu Leu Glu Lys Arg Val
 65                  70              75                  80

Met Glu His Asp Gly Gln Ser Leu Val Lys Ser Thr Ile Phe Ile Ser
                85                  90                  95

Pro Ser Ser Val Lys Lys Glu Glu Ala Pro Gln Ser Xaa Ala Pro Arg
                100                 105                 110
```

5028

<210> 5729
<211> 64
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (29)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5729
Ile Leu Phe Ala Pro Pro Arg Phe Ala Pro Glu Arg Gln Ser Ser Ser
 1   5   10   15

Arg Gly Pro Leu Arg His Arg Tyr Ser Ser Gln Ile Xaa Thr His Phe
            20   25   30

Thr Ala Thr Pro Gly Ile Leu Pro Pro Leu Arg Asp Ser Ser Leu Pro
            35   40   45

Val Ser Asp Ala Val Pro Arg Leu Ser Pro Gly Ile Ser His Leu Thr
    50   55   60

<210> 5730
<211> 63
<212> PRT
<213> Homo sapiens

<400> 5730
Ser Leu Ser Ala Pro Glu Leu Lys Ser Leu Ala Lys Thr Phe His Leu
 1   5   10   15

Val Asn Pro Asn Gly Gln Lys Gln Gln Leu Val Asp Ala Phe Leu Lys
            20   25   30

Leu Ala Lys Gln Arg Ser Val Cys Thr Trp Gly Lys Asn Lys Pro Gly
            35   40   45

Ile Gly Ala Val Ile Leu Lys Arg Phe Cys Trp Leu Leu Leu Gln
    50   55   60

5029

```
<210> 5731
<211> 94
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (40)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (64)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5731
Glu Met Ser His Lys Glu Arg His Phe Glu Leu Leu Leu Lys Ser Cys
 1               5                  10                  15

Lys Val Ser Tyr Pro Gly Thr Val Phe Leu Asn Gly Asn Val Met Ala
                20                  25                  30

Glu Ser Cys Ser Ile Thr Thr Xaa Gly Leu Val His Gln Val Pro Thr
            35                  40                  45

His Pro Leu Gln Ala Leu Gly Ser Gly Met Cys Pro Ser Trp Lys Xaa
        50                  55                  60

Gln Val Leu Trp Leu Cys Trp Phe Trp Leu Ser Phe Ser Val Thr Phe
65                  70                  75                  80

Gln Tyr Leu Ser Pro Ser Arg Tyr Cys Lys Pro Leu Ser Asn
                85                  90
```

```
<210> 5732
<211> 71
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5732
Gly Xaa Gly Phe Trp Pro Ala Ser Val Ala Arg Val Leu Thr Gly Val
 1               5                  10                  15
```

5030

Thr Asn His Leu Ala Phe Asn Thr Lys Lys Pro His Ile Leu Arg Asn
            20   25   30

Pro Arg Thr Gln Lys Val Leu Gly Phe Val Ser Asp Ala Glu Gly Trp
            35   40   45

Val Glu Ser Met Lys Pro Thr Gln Arg Asp Asp Ser Thr Ile Cys Ser
            50   55   60

Ile Gly Trp Lys Trp Arg Gly
65   70

<210> 5733
<211> 85
<212> PRT
<213> Homo sapiens

<400> 5733
His Gln Trp Arg Gly Ala Leu His Ile Leu Cys Gln Gln Gln His Ser
 1   5   10   15

His Thr Arg Trp Phe Trp Ala Leu Cys Arg Leu Val Leu Val Gly Asp
            20   25   30

Thr Gln Gln His Pro Cys Trp Thr Gly Leu Ile Val Arg Ser Leu Arg
            35   40   45

Pro Thr Leu Gln Ser Glu Met Leu Leu Gly Gly Gly Lys Glu Asn Thr
            50   55   60

Phe Phe Pro Pro Cys Gly Asn Glu Glu Arg Gly Lys Trp Ile Gly Lys
65   70   75   80

Pro Lys Cys Glu Ser
                85

<210> 5734
<211> 123
<212> PRT
<213> Homo sapiens

<400> 5734
Phe Ser Leu Thr Leu Phe Pro Pro Pro Thr Cys His Gln Ala Ser Pro
 1   5   10   15

Lys Pro Thr Ala Met Gly Pro Ser Gly Pro Phe Arg Asp Trp Ser Glu
            20   25   30

5031

```
Ile Trp Val Trp Arg Gly Arg Arg Gln Gly Gly Gly Ala Ser His Ser
        35              40              45

Arg Thr Val Asp Glu Arg Asp Arg Leu Arg Arg Lys Trp Ala Leu Arg
    50              55              60

Leu Gln Gly Trp Lys Ser Leu Pro Thr Ser His Ser Pro Ala Pro Ile
65              70              75              80

Tyr Leu Val Leu Pro Arg Gln Ile Gly Pro Phe Glu Ala Pro Glu Cys
            85              90              95

Pro Gln Met Val Lys Thr Gln Phe Ser Leu Trp Glu Pro Lys Pro Gly
        100             105             110

Cys Ile Gly Gly Gln Asp Pro Asp His Ser Leu
        115             120
```

```
<210> 5735
<211> 42
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (20)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (32)
<223> Xaa equals any of the naturally occurring L-amino acids

:220>
:221> SITE
:222> (34)
 223> Xaa equals any of the naturally occurring L-amino acids

400> 5735
 /s Cys Pro Ile Ala Ser Glu Ala Pro Trp Thr Ile Thr Asp Ala Glu
 1           5               10              15

  :u Arg Val Xaa Leu Thr Val Glu Asp Ser Gln Pro Tyr Glu Asp Xaa
            20              25              30

   u Xaa Gly Arg Ser Ser Leu Ser Lys Val
         35              40
```

5032

<210> 5736
<211> 34
<212> PRT
<213> Homo sapiens

<400> 5736
Tyr Pro Thr His Tyr Arg Glu Ser Trp Tyr Ala Cys Arg Tyr Arg Ser
1   5   10   15

Gly Ile Pro Gly Ser Thr His Ala Ser Gly Ile Leu Gly Leu Arg Phe
            20   25   30

Phe Met

<210> 5737
<211> 202
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (167)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (195)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5737
Tyr Ser Arg Pro Gln Ala His Ser Ser Ala Ser Gly Gly Ile Arg Arg
1   5   10   15

Ser Ser Ser Met Ser Tyr Val Asp Gly Phe Ile Gly Thr Trp Pro Lys
            20   25   30

Glu Lys Arg Ser Ser Val His Gly Val Ser Phe Asp Ile Ser Phe Asp
            35   40   45

Lys Glu Asp Ser Val Gln Arg Ser Thr Pro Asn Arg Gly Ile Thr Arg
    50   55   60

Ser Ile Ser Asn Glu Gly Leu Thr Leu Asn Asn Ser His Val Ser Lys
65   70   75   80

His Ile Arg Lys Asn Leu Ser Phe Lys Pro Ile Asn Gly Glu Glu Glu

5033

```
                85                    90                    95

Ala Glu Ser Ile Glu Glu Glu Leu Asn Ile Asp Ser His Ser Asp Leu
            100               105               110

Lys Ser Cys Val Pro Leu Asn Thr Asn Glu Leu Asn Ser Asn Glu Asn
            115               120               125

Ile His Tyr Lys Leu Pro Asn Gly Ala Leu Gln Asn Arg Ile Leu Leu
            130               135               140

Asp Glu Phe Gly Asn Gln Ile Glu Thr Pro Ser Ile Glu Glu Ala Leu
145               150               155               160

Gln Ile Ile His Asp Thr Xaa Lys Ser Pro His Thr Pro Gln Pro Asp
                165               170               175

Gln Ile Ala Asn Gly Phe Phe Leu His Ser Gln Gly Met Ser Ile Leu
            180               185               190

Asn Ser Xaa Ile Lys Leu Asn Gln Ser Ser
            195               200
```

```
<210> 5738
<211> 35
<212> PRT
<213> Homo sapiens

<400> 5738
Gly Arg Ile Ser His Val Gly Ser Arg Thr Glu Gly Ser Arg Leu Pro
 1               5                10                15

Ala Gln Cys Ser Leu Cys Ser Thr Met Leu Pro Leu Val Gly Glu Thr
            20               25               30

Gly Gln Lys
        35
```

```
<210> 5739
<211> 35
<212> PRT
<213> Homo sapiens

<400> 5739
ln Trp Gly Lys Lys Ala Val Ser Arg Gly Phe Ser Lys Gly Asn Thr
 1               5                10                15
```

5034

```
Gln Met Ala Lys Lys His Met Gln Arg Cys Ser Met Phe Phe Val Ile
            20                  25              30

Arg Lys Met
        35
```

<210> 5740
<211> 220
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (65)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (96)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (117)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5740
```
Glu Lys Thr Ile Leu Thr Gly Glu Cys Cys Tyr Leu Asn Pro Leu Leu
 1           5                  10              15

Arg Arg Ile Ile Arg Phe Thr Gly Val Phe Ala Phe Gly Leu Phe Ala
            20                  25              30

Thr Asp Ile Phe Val Asn Ala Gly Gln Val Val Thr Gly His Leu Thr
        35              40                  45

Pro Tyr Phe Leu Thr Val Cys Lys Pro Asn Tyr Thr Ser Ala Asp Cys
    50              55                  60

Xaa Ala His His Gln Phe Ile Asn Asn Gly Asn Ile Cys Thr Gly Asp
65                  70                  75                  80

Arg Glu Val Ile Glu Lys Ala Arg Arg Ser Phe Pro Ser Lys His Xaa
                85                  90                  95

Ala Leu Ser Ile Tyr Ser Ala Leu Tyr Ala Thr Met Tyr Ile Thr Ser
                100                 105                 110

Thr Ile Lys Thr Xaa Ser Ser Arg Leu Ala Lys Pro Val Leu Cys Leu
```

5035

```
              115                   120                  . 125

Gly Thr Leu Cys Thr Ala Phe Leu Thr Gly Leu Asn Arg Val Ser Glu
    130             135             140

Tyr Arg Asn His Cys Ser Asp Val Ile Ala Gly Phe Ile Leu Gly Thr
145             150             155             160

Ala Val Ala Leu Phe Leu Gly Met Cys Val Val His Asn Phe Lys Gly
                165             170             175

Thr Gln Gly Ser Pro Ser Lys Pro Lys Pro Glu Asp Pro Arg Gly Val
            180             185             190

Pro Leu Met Ala Phe Pro Arg Ile Glu Ser Pro Leu Glu Thr Leu Ser
        195             200             205

Ala Gln Asn His Ser Ala Ser Met Thr Glu Val Thr
    210             215             220
```

```
<210> 5741
<211> 38
<212> PRT
<213> Homo sapiens

<400> 5741
Lys Thr Phe Arg Leu Phe Leu Ala Ile Ser Leu Thr Phe Ala Thr Ile
    1               5               10              15

Val Thr Lys His Ser Leu Tyr Met His Pro Pro Asn Val Ser Cys Leu
            20              25              30

Phe Ile Gly Lys Leu Tyr
            35
```

```
<210> 5742
<211> 59
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (14)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
```

5036

<222> (23)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (57)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5742
Trp Gln Gly His Trp Pro Gly Pro His Leu Pro Ser Ser Xaa Leu Pro
1   5   10   15

Lys Arg Lys Leu Pro Trp Xaa Ser Arg Pro Leu Asn Ala Asn Ser Trp
            20   25   30

Leu Pro Val Ser Gly Trp Val Asp Leu Thr Trp Pro Leu Leu Ala Gly
            35   40   45

Pro Cys Ser Phe Leu Thr Cys Arg Xaa Glu Gln
    50   55

<210> 5743
<211> 122
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5743
Xaa Leu Val Ala Gly Asp Ile Val Leu Asp Lys Leu Gly Glu Arg Leu
1   5   10   15

Ala Ile Leu Leu Lys Val Arg Asp Met Val Ser Ser His Val Glu Arg
            20   25   30

Val Phe Gln Ile Tyr Glu Gln His Ala Asp Thr Val Gly Ile Asp Ala
            35   40   45

Val Leu Gln Pro Ser Ala Val Ser Pro Ser Val Ala Asp Met Leu Glu
    50   55   60

Trp Leu Gln Asp Ile Glu Arg His Tyr Arg Lys Ser Tyr Leu Lys Arg
65   70   75   80

Lys Tyr Leu Leu Ser Ser Ile Gln Trp Gly Asp Leu Ala Asn Ile Gln
                85   90   95

5037

```
Ala Leu Pro Lys Ala Trp Asp Arg Ile Ser Lys Asp Glu His Gln Asp
            100                 105             110

Leu Val Gln Asp Ile Leu Leu Asn Val Ser
            115             120




<210> 5744
<211> 66
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (6)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (8)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5744
Thr Xaa Asn Phe His Xaa Arg Xaa Glu Val Ile Asn Ser Gly His Gln
 1               5               10              15

Arg Ile Leu Ala Ser Ala Leu Gly Leu Val Met Tyr Gln Val Trp Tyr
            20              25              30

Tyr Phe Leu Phe Val Leu Ile Arg Phe Leu Pro Ser Ser Ser Ile Trp
        35              40              45

Glu Ile Lys Thr Gly Leu Leu Ala Trp Leu Val Thr Glu Arg Gln Ala
    50              55              60

His Ser
 65




<210> 5745
<211> 59
<212> PRT
<213> Homo sapiens
```

```
<220>
<221> SITE
<222> (13)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (41)
<223> Xaa equals any of the naturally occurring L-amino acids


<400> 5745
Ser Phe Pro Pro Arg Asn Ser Pro Arg Leu Lys Thr Xaa Leu His Tyr
 1               5               10              15

Gln Val Met Arg Cys Glu Gly Gly Ser Leu Lys Val Glu Asn Leu Gly
            20              25              30

Val Glu Ala Thr Val Pro Ser Trp Xaa Leu Ser Phe Leu Ile Cys Glu
            35              40              45

Met Arg Val Asn Val Lys Leu Leu Cys Lys Met
        50              55




<210> 5746
<211> 117
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (41)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (111)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5746
Lys Ala Thr Leu Leu Ser Cys Glu Ala His His Leu Ser Leu Ala Leu
 1               5               10              15

Gly Ser Ser Cys Arg Arg Ser Leu Gly Pro Leu Met His Pro Phe Gln
            20              25              30

Gln Thr Phe His Phe Gly Val Arg Xaa Asp Phe Leu Ala Leu Gln Gly
            35              40              45
```

5039

```
Ala Pro Ala Ser Ser Cys Ile Pro Cys Pro Gly Pro Gly Ile Ser Pro
     50                  55                  60

Phe Ser Lys Glu Pro Arg Val Leu Leu Leu Ala Ser Leu Lys Arg Val
 65                  70                  75                  80

Arg Pro Gly Cys Gln Ala Gly Ser Pro Arg Ser Phe Tyr Trp Glu Val
                 85                  90                  95

Leu Glu Ser Glu Ala Trp Val Pro Gly Gly Cys Gln Val Gly Xaa Val
                100                 105                 110

Leu Leu Gly Cys Cys
         115
```

```
<210> 5747
<211> 52
<212> PRT
<213> Homo sapiens

<400> 5747
Leu Thr Leu Thr Lys Gly Asn Lys Ser Trp Gly Ser Thr Ala Val Thr
 1               5                  10                  15

Ala Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn Ser Ala Arg
                 20                  25                  30

Gly Leu Val Arg Val Phe Phe Phe Phe Phe Phe Lys Thr Asn Thr Phe
                 35                  40                  45

Ile Ala His Leu
         50
```

```
<210> 5748
<211> 270
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (266)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5748
Thr Leu Glu Gln Glu Gln Glu Ala Leu Val Asn Arg Leu Trp Lys Arg
 1               5                  10                  15
```

5040

```
Met Asp Lys Leu Glu Ala Glu Lys Arg Ile Leu Gln Glu Lys Leu Asp
             20                  25                  30

Gln Pro Val Ser Ala Pro Pro Ser Pro Arg Asp Ile Ser Met Glu Ile
             35                  40                  45

Asp Ser Pro Glu Asn Met Met Arg His Ile Arg Phe Leu Lys Asn Glu
         50                  55                  60

Val Glu Arg Leu Lys Lys Gln Leu Arg Ala Ala Gln Leu Gln His Ser
65                   70                  75                  80

Glu Lys Met Ala Gln Tyr Leu Glu Glu Glu Arg His Met Arg Glu Glu
                 85                  90                  95

Asn Leu Arg Leu Gln Arg Lys Leu Gln Arg Glu Met Glu Arg Arg Glu
             100                 105                 110

Ala Leu Cys Arg Gln Leu Ser Glu Ser Glu Ser Ser Leu Glu Met Asp
         115                 120                 125

Asp Glu Arg Tyr Phe Asn Glu Met Ser Ala Gln Gly Leu Arg Pro Arg
         130                 135                 140

Thr Val Ser Ser Pro Ile Pro Tyr Thr Pro Ser Pro Ser Ser Ser Arg
145                 150                 155                 160

Pro Ile Ser Pro Gly Leu Ser Tyr Ala Ser His Thr Val Gly Phe Thr
                 165                 170                 175

Pro Pro Thr Ser Leu Thr Arg Ala Gly Met Ser Tyr Tyr Asn Ser Pro
             180                 185                 190

Gly Leu His Val Gln His Met Gly Thr Ser His Gly Ile Thr Arg Pro
         195                 200                 205

Ser Pro Arg Arg Ser Asn Ser Pro Asp Lys Phe Lys Arg Pro Thr Pro
    210                 215                 220

Pro Pro Ser Pro Asn Thr Gln Thr Pro Val Gln Pro Pro Pro Pro Pro
225                 230                 235                 240

Pro Pro Pro Pro Met Gln Pro Thr Val Pro Ser Ala Ala Thr Ser Gln
                 245                 250                 255

Pro Thr Pro Ser Gln His Ser Ala His Xaa Ser Ser Gln Pro
             260                 265                 270
```

<210> 5749

5041

<211> 67
<212> PRT
<213> Homo sapiens

<400> 5749
Val Ile Gln Val Tyr Thr Ser Val Lys Ile Gln Arg Met Tyr Thr Gln
1   5   10   15

Asp Leu Cys Ile Ser Leu Tyr Val Asn Val Thr Leu Lys Cys Cys Lys
                20   25   30

Gln Ile Leu Asn Lys Tyr Thr His Ala Lys Val Phe Lys Arg Lys Tyr
            35   40   45

Trp Cys Leu Gln Asn Lys Asn Phe Phe Ser Ile Phe Cys Gly Lys Ile
    50   55   60

Tyr Ile Ile
65

<210> 5750
<211> 152
<212> PRT
<213> Homo sapiens

<400> 5750
Pro Arg Gly Ser Val Gly Val Ser Ser Glu Leu His Gln Phe Pro Gly
1   5   10   15

Tyr Leu Gly Pro Trp Ile Thr Leu Arg Ser Ala Thr Cys Gln Leu Ile
            20   25   30

Ser Lys Leu Leu Leu Ala Gly Leu Arg Leu Ser Arg Glu His Leu Gly
            35   40   45

Glu Pro Cys Ala Ala Gly Trp Thr Pro Ala His Leu Ala Asp Tyr Ser
    50   55   60

Cys Phe Cys Ser Pro Val Cys Pro Gln Glu Val Arg Ala Cys Leu Leu
65   70   75   80

Phe Leu His Asp His Gly Arg Arg Gly Thr Asn Met Arg Val Leu Ala
                85   90   95

Ser Pro Gln Trp Trp Leu Pro Arg Ala Gly Glu Thr Leu Gly Glu Gly
            100   105   110

Leu Gly Gln Gly Pro Leu Ser Leu Ala Ala Thr Ala Trp Val Asn Cys
            115   120   125

5042

```
Leu Ala Arg Leu Ala Ala Arg Ala Gln Lys Ala Glu Ala Leu Pro Ala
    130                 135             140

Phe Ser Ser His Pro Ala Pro Met
145             150
```

```
<210> 5751
<211> 98
<212> PRT
<213> Homo sapiens
```

```
<400> 5751
Arg Val Ala Val Glu Asp Val Ser Met Val Lys Gln Lys Asn Thr Thr
    1           5               10              15

Phe Leu Trp Lys Glu Ile Leu Lys Gln Gln Ser Gln Ile Val Lys Met
            20              25              30

Leu Arg Ile Ser Val Pro Pro Leu Thr Ser Val Ser Val Lys Pro Gln
            35              40              45

Leu Gly Cys Thr Glu Asp Tyr Leu Leu Ser Lys Leu Pro Ser Asp Gly
    50              55              60

Lys Glu Val Pro Phe Val Val Arg Lys Phe Lys Leu Ser Tyr Ile Gln
    65              70              75              80

Pro Arg Thr Gln Glu Thr Pro Ser His Leu Glu Glu Leu Glu Gly Ser
                85              90                  95

Ala Gly
```

```
<210> 5752
<211> 92
<212> PRT
<213> Homo sapiens
```

```
<220>
<221> SITE
<222> (81)
<223> Xaa equals any of the naturally occurring L-amino acids
```

```
<400> 5752
Asp Arg Lys Arg Asp Leu Thr Ser Pro Trp Arg Leu Ser Val Ser Ala
    1           5               10              15
```

5043

```
Glu Ala Leu Gly Leu Ala Leu Gly Leu Cys Ile Pro Glu Ser Cys Cys
              20              25             30

Met Pro Gly Ile Gly Phe Gln Ala Cys Leu Ser Phe Ser Ser Leu Pro
          35              40              45

Gly Ile Ala Met Arg Trp Glu Gly Glu Pro Ser Ser Pro Ala Glu Ile
      50              55              60

Pro Ala Ala Trp Gln Pro Ala Gly Gly Ser Trp Ile Pro Arg Gly Asp
65              70              75              80

Xaa Thr Asp Ala Leu Trp Phe His Val Ile Trp Ile
              85              90
```

```
<210> 5753
<211> 88
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (49)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (60)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (74)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (81)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (84)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5753
Pro Arg Arg His Arg Val Pro Gly Ser Gly Phe Ala Phe Pro Lys Asn
  1               5               10              15
```

5044

```
Glu Asn Lys Leu Leu Pro Lys Glu Leu Val Phe Pro Leu Leu Phe Ser
            20              25              30

Asn Cys Glu Gly Pro Arg Gly Val Glu His Gly Ala Pro His Lys Pro
            35              40              45

Xaa Gly Trp Cys Pro Gly Tyr Gln Gly His Ala Xaa Gly Leu Asp Asp
    50              55              60

Leu Ser Leu Gln Gly Ala Leu Val Val Xaa Asn Trp Leu Lys Val Thr
65              70              75              80

Xaa Glu Gly Xaa Cys Gly Asn Trp
                85
```

<210> 5754
<211> 28
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (16)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5754
```
Lys Ile Phe Ser Phe Ala Val Pro Asp Pro Leu Met Pro Asp Pro Xaa
1               5               10              15

Lys Gln Pro Lys Asn Gln Leu Asn Pro Ile Gly Ser
            20              25
```

<210> 5755
<211> 75
<212> PRT
<213> Homo sapiens

<400> 5755
```
Arg Met Asn Ile Cys Val Ser Val Cys Val Ser Glu Leu Cys Asp Phe
1               5               10              15

Ile Arg Gly Ile Cys Gln Phe Ser His Cys Gly Ser Phe Ser Asp Phe
            20              25              30

Ala Cys Ser Ser Ser Lys Glu Ala Arg Ser Phe Ala Asp Phe Thr Ile
            35              40              45
```

5045

```
Pro Gln Thr Cys Lys Phe Leu Thr Ser Ser Lys Leu Ala Leu Ala Leu
    50              55              60

Ser Ser Thr Phe Pro Phe Lys Ser Asn Leu Cys
65              70              75


<210> 5756
<211> 540
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (320)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (508)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5756
Thr Met Asp Glu Glu Glu Lys Asp Asp Gly Glu Ala Lys Glu Ile Ser
 1               5              10              15

Thr Pro Thr His Trp Ser Lys Leu Asp Pro Lys Thr Met Lys Val Asn
            20              25              30

Asp Leu Arg Lys Glu Leu Glu Ser Arg Ala Leu Ser Ser Lys Gly Leu
        35              40              45

Lys Ser Gln Leu Ile Ala Arg Leu Thr Lys Gln Leu Lys Val Glu Glu
    50              55              60

Gln Lys Glu Glu Gln Lys Glu Leu Glu Lys Ser Glu Lys Glu Glu Asp
65              70              75              80

Glu Asp Asp Asp Arg Lys Ser Glu Asp Asp Lys Glu Glu Glu Glu Arg
            85              90              95

Lys Arg Gln Glu Glu Ile Glu Arg Gln Arg Arg Glu Arg Arg Tyr Ile
            100             105             110

Leu Pro Asp Glu Pro Ala Ile Ile Val His Pro Asn Trp Ala Ala Lys
        115             120             125

Ser Gly Lys Phe Asp Cys Ser Ile Met Ser Leu Ser Val Leu Leu Asp
    130             135             140
```

5046

Tyr Arg Leu Glu Asp Asn Lys Glu His Ser Phe Glu Val Ser Leu Phe
145   150   155   160

Ala Glu Leu Phe Asn Glu Met Leu Gln Arg Asp Phe Gly Val Arg Ile
            165   170   175

Tyr Lys Ser Leu Leu Ser Leu Pro Glu Lys Glu Asp Lys Lys Glu Lys
        180   185   190

Asp Lys Lys Ser Lys Lys Asp Glu Arg Lys Asp Lys Lys Glu Glu Arg
        195   200   205

Asp Asp Glu Thr Asp Glu Pro Lys Pro Lys Arg Arg Lys Ser Gly Asp
    210   215   220

Asp Lys Asp Lys Lys Glu Asp Arg Asp Glu Arg Lys Lys Glu Asp Lys
225   230   235   240

Arg Lys Asp Asp Ser Lys Asp Asp Asp Glu Thr Glu Glu Asp Asn Asn
            245   250   255

Gln Asp Glu Tyr Asp Pro Met Glu Ala Glu Glu Ala Glu Asp Glu Glu
        260   265   270

Asp Asp Arg Asp Glu Glu Glu Met Thr Lys Arg Asp Asp Lys Arg Asp
    275   280   285

Ile Asn Arg Tyr Cys Lys Glu Arg Pro Ser Lys Asp Lys Glu Lys Glu
    290   295   300

Lys Thr Gln Met Ile Thr Ile Asn Arg Asp Leu Leu Met Ala Phe Xaa
305   310   315   320

Tyr Phe Asp Gln Ser His Cys Gly Tyr Leu Leu Glu Lys Asp Leu Glu
            325   330   335

Glu Ile Leu Tyr Thr Leu Gly Leu His Leu Ser Arg Ala Gln Val Lys
        340   345   350

Lys Leu Leu Asn Lys Val Val Leu Arg Glu Ser Cys Phe Tyr Arg Lys
        355   360   365

Leu Thr Asp Thr Ser Lys Asp Glu Glu Asn His Glu Glu Ser Glu Ser
    370   375   380

Leu Gln Glu Asp Met Leu Gly Asn Arg Leu Leu Leu Pro Thr Pro Thr
385   390   395   400

Val Lys Gln Glu Ser Lys Asp Val Glu Glu Asn Val Gly Leu Ile Val
            405   410   415

```
Tyr Asn Gly Ala Met Val Asp Val Gly Ser Leu Leu Gln Lys Leu Glu
            420             425             430

Lys Ser Glu Lys Val Arg Ala Glu Val Glu Gln Lys Leu Gln Leu Leu
         435             440             445

Glu Glu Lys Thr Asp Glu Asp Glu Lys Thr Ile Leu Asn Leu Glu Asn
    450             455             460

Ser Asn Lys Ser Leu Ser Gly Glu Leu Arg Glu Val Lys Lys Asp Leu
465             470             475             480

Ser Gln Leu Gln Glu Asn Leu Lys Ile Ser Glu Asn Met Asn Leu Gln
                485             490             495

Phe Glu Asn Gln Met Asn Lys Thr Ile Arg Asn Xaa Ser Thr Val Met
            500             505             510

Asp Glu Ile His Thr Val Leu Lys Lys Asp Asn Val Lys Asn Glu Asp
        515             520             525

Lys Asp Gln Lys Ser Lys Glu Asn Gly Ala Ser Val
    530             535             540
```

<210> 5757
<211> 231
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (201)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (214)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (220)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5757
```
Glu Lys Gln Ala Glu Ile Leu Glu Tyr Ala Tyr His Gly Gln Ile Ala
 1               5               10              15
```

5048

Ile Val Ala Pro Glu Ala Leu Leu Ala Gly His Asn Tyr Thr Leu Lys
            20   25   30

Ile Glu Tyr Ser Ala Asn Ile Ser Ser Ser Tyr Tyr Gly Phe Tyr Gly
            35   40   45

Phe Ser Tyr Thr Asp Glu Ser Asn Glu Lys Lys Tyr Phe Ala Ala Thr
            50   55   60

Gln Phe Glu Pro Leu Ala Ala Arg Ser Ala Phe Pro Cys Phe Asp Glu
65   70   75   80

Pro Ala Phe Lys Ala Thr Phe Ile Ile Lys Ile Ile Arg Asp Glu Gln
                  85   90   95

Tyr Thr Ala Leu Ser Asn Met Pro Lys Lys Ser Ser Val Val Leu Asp
                 100   105   110

Asp Gly Leu Val Gln Asp Glu Phe Ser Glu Ser Val Lys Met Ser Thr
                 115   120   125

Tyr Leu Val Ala Phe Ile Val Gly Glu Met Lys Asn Leu Ser Gln Asp
         130   135   140

Val Asn Gly Thr Leu Val Ser Ile Tyr Ala Val Pro Glu Lys Ile Gly
145   150   155   160

Gln Val His Tyr Ala Leu Glu Thr Thr Val Lys Leu Leu Glu Phe Phe
                 165   170   175

Gln Asn Tyr Phe Glu Ile Gln Tyr Pro Leu Lys Lys Leu Asp Leu Val
                 180   185   190

Ala Ile Pro Asp Phe Glu Ala Arg Xaa Asn Gly Lys Leu Gly Phe Cys
         195   200   205

Ser Pro Ser Glu Lys Xaa Thr Leu Leu Phe Asp Xaa Tyr Thr Ser Ser
210   215   220

Met Ala Asp Lys Lys Ala Gly
225   230

<210> 5758
<211> 294
<212> PRT
<213> Homo sapiens

<400> 5758
Asn Met Thr Glu Asp Ser Gln Arg Asn Phe Arg Ser Val Tyr Tyr Glu

5049

1				5				10				15	

Lys Val Gly Phe Arg Gly Val Glu Glu Lys Lys Ser Leu Glu Ile Leu
                20   25   30

Leu Lys Asp Asp Arg Leu Asp Thr Glu Lys Leu Cys Thr Phe Ser Gln
            35   40   45

Arg Phe Pro Leu Pro Ser Met Tyr Arg Ala Leu Val Trp Lys Val Leu
        50   55   60

Leu Gly Ile Leu Pro Pro His His Glu Ser His Ala Lys Val Met Met
65   70   75   80

Tyr Arg Lys Glu Gln Tyr Leu Asp Val Leu His Ala Leu Lys Val Val
                85   90   95

Arg Phe Val Ser Asp Ala Thr Pro Gln Ala Glu Val Tyr Leu Arg Met
            100   105   110

Tyr Gln Leu Glu Ser Gly Lys Leu Pro Arg Ser Pro Ser Phe Pro Leu
        115   120   125

Glu Pro Asp Asp Glu Val Phe Leu Ala Ile Ala Lys Ala Met Glu Glu
    130   135   140

Met Val Glu Asp Ser Val Asp Cys Tyr Trp Ile Thr Arg Arg Phe Val
145   150   155   160

Asn Gln Leu Asn Thr Lys Tyr Arg Asp Ser Leu Pro Gln Leu Pro Lys
                165   170   175

Ala Phe Glu Gln Tyr Leu Asn Leu Glu Asp Gly Arg Leu Leu Thr His
            180   185   190

Leu Arg Met Cys Ser Ala Ala Pro Lys Leu Pro Tyr Asp Leu Trp Phe
        195   200   205

Lys Arg Cys Phe Ala Gly Cys Leu Pro Glu Ser Ser Leu Gln Arg Val
    210   215   220

Trp Asp Lys Val Val Ser Gly Ser Cys Lys Ile Leu Val Phe Val Ala
225   230   235   240

Val Glu Ile Leu Leu Thr Phe Lys Ile Lys Val Met Ala Leu Asn Ser
                245   250   255

Ala Glu Lys Ile Thr Lys Phe Leu Glu Asn Ile Pro Gln Asp Ser Ser
            260   265   270

Asp Ala Ile Val Ser Lys Ala Ile Asp Leu Trp His Lys His Cys Gly

5050

```
        275                 280                 285

Thr Pro Val His Ser Ser
    290
```

```
<210> 5759
<211> 431
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (5)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5759
Xaa Phe Gly Ala Xaa Gly Thr Val Glu Ser Glu Thr Ser Pro Asp Arg
  1               5                  10                  15

Asp Lys Lys Lys Glu Gln Ser Glu Val Ser Val Ser Pro Arg Ala Ser
             20                  25                  30

Lys His His Tyr Ser Arg Ser Arg Ser Arg Ser Arg Glu Arg Lys Arg
         35                  40                  45

Lys Ser Asp Asn Glu Gly Arg Lys His Arg Ser Arg Ser Arg Ser Lys
     50                  55                  60

Glu Gly Arg Arg His Glu Ser Lys Asp Lys Ser Ser Lys Lys His Lys
 65                  70                  75                  80

Ser Glu Glu His Asn Asp Lys Glu His Ser Ser Asp Lys Gly Arg Glu
                 85                  90                  95

Arg Leu Asn Ser Ser Glu Asn Gly Glu Asp Arg His Lys Arg Lys Glu
             100                 105                 110

Arg Lys Ser Ser Arg Gly Arg Ser His Ser Arg Ser Arg Ser Arg Glu
             115                 120                 125

Arg Arg His Arg Ser Arg Ser Arg Glu Arg Lys Lys Ser Arg Ser Arg
         130                 135                 140

Ser Arg Glu Arg Lys Lys Ser Arg Ser Arg Ser Arg Glu Arg Lys Lys
```

5051

145   150   155   160

Ser Arg Ser Arg Ser Arg Glu Arg Lys Arg Arg Ile Arg Ser Arg Ser
                165   170   175

Arg Ser Arg Ser Arg His Arg His Arg Thr Arg Ser Arg Ser Arg Thr
                180   185   190

Arg Ser Arg Ser Arg Asp Arg Lys Lys Arg Ile Glu Lys Pro Arg Arg
                195   200   205

Phe Ser Arg Ser Leu Ser Arg Thr Pro Ser Pro Pro Pro Phe Arg Gly
     210   215   220

Arg Asn Thr Ala Met Asp Ala Gln Glu Ala Leu Ala Arg Arg Leu Glu
225   230   235   240

Arg Ala Lys Lys Leu Gln Glu Gln Arg Glu Lys Glu Met Val Glu Lys
                245   250   255

Gln Lys Gln Gln Glu Ile Ala Ala Ala Ala Ala Ala Thr Gly Gly Ser
                260   265   270

Val Leu Asn Val Ala Ala Leu Leu Ala Ser Gly Thr Gln Val Thr Pro
                275   280   285

Gln Ile Ala Met Ala Ala Gln Met Ala Ala Leu Gln Ala Lys Ala Leu
     290   295   300

Ala Glu Thr Gly Ile Ala Val Pro Ser Tyr Tyr Asn Pro Ala Ala Val
305   310   315   320

Asn Pro Met Lys Phe Ala Glu Gln Glu Lys Lys Arg Lys Met Leu Trp
                325   330   335

Gln Gly Lys Lys Glu Gly Asp Lys Ser Gln Ser Ala Glu Ile Trp Glu
                340   345   350

Lys Leu Asn Phe Gly Asn Lys Asp Gln Asn Val Lys Phe Arg Lys Leu
                355   360   365

Met Gly Ile Lys Ser Glu Asp Glu Ala Gly Cys Ser Ser Val Asp Glu
     370   375   380

Glu Ser Tyr Lys Thr Leu Lys Gln Gln Glu Glu Val Phe Arg Asn Leu
385   390   395   400

Asp Ala Gln Tyr Glu Met Ala Arg Ser Gln Thr His Thr Gln Arg Gly
                405   410   415

Met Gly Leu Gly Phe Thr Ser Ser Met Arg Gly Met Asp Ala Val

5052

420   425   430

<210> 5760
<211> 59
<212> PRT
<213> Homo sapiens

<400> 5760
Ala Gly Val Phe Ile Gly Glu Arg Lys Cys Val Val Trp Ala Gly Leu
1   5   10   15

Leu Val Glu Ala Gly Phe Leu Ala His Leu Leu Tyr Met Leu Pro Met
                20   25   30

Asp Leu Arg Leu Glu Met Leu Lys Val Glu Trp Asn Tyr Phe Pro Pro
            35   40   45

Lys Thr Phe Ile Tyr Ser Thr Pro Leu Tyr Pro
        50   55

<210> 5761
<211> 99
<212> PRT
<213> Homo sapiens

<400> 5761
Val Ile Phe Tyr Phe Thr Asn Lys Gly Thr Lys Ser Met Asn Ile Ser
1   5   10   15

Leu Phe Leu Ile Ile Ser Ala Leu Lys Tyr Phe Gly Tyr Leu Ala Pro
                20   25   30

Val Arg Ala Asp Trp His Cys Leu Val Gln Glu Val Cys Ser Arg Cys
            35   40   45

Ser Ala Ser Glu Leu His Tyr Asp Cys Pro Pro Thr Asn His Pro Pro
        50   55   60

Ala Ser Pro Arg Glu Arg Gly Ile Gln Arg Gly Thr Val Leu Thr Arg
65   70   75   80

Ser Ser Gln Leu Asp Pro Gly Gln Arg Asn Pro Tyr Pro Gly Thr Leu
                85   90   95

Ser Leu Ser

5053

```
<210> 5762
<211> 48
<212> PRT
<213> Homo sapiens

<400> 5762
Pro Pro Ser Leu Thr Lys Gly Asn Lys Ser Trp Cys Ser Thr Ala Val
  1               5                  10                  15

Ala Ala Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn Ser Ala
             20                  25                  30

Arg Phe Pro Leu Phe Leu Gly Val Ser Ile Leu Ser Pro Trp Lys Met
         35                  40                  45


<210> 5763
<211> 101
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (31)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (85)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (86)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5763
Trp Asn Glu His Arg Pro Leu Asn Pro Arg Tyr Glu Phe Lys Ser Gln
  1               5                  10                  15

Leu Trp Arg Trp Leu Leu Lys Val Ser Val Pro Ser Phe Phe Xaa Leu
             20                  25                  30

Tyr Lys Val Asp Ile Thr Ile Ser Asn Leu Gln Ser His Trp Glu Leu
         35                  40                  45
```

5054

```
Tyr Met Gln Arg Leu Gly Lys Ala Pro Gly Thr Trp Gln Ala Ile Ser
    50              55              60
```

```
Lys Cys Trp Leu Leu Leu Leu Leu Ser Leu Pro Phe Ser Gln Ser Ile
65              70              75              80
```

```
Ile Ile Ser Leu Xaa Xaa Gly Thr Met Ser Tyr Leu Pro Leu Tyr Phe
            85              90              95
```

```
Pro Gln Tyr Phe Pro
        100
```


```
<210> 5764
<211> 136
<212> PRT
<213> Homo sapiens
```

```
<400> 5764
Cys Val Ile Leu Thr Lys Gly Ser Ser Leu Gly Gln Pro Ser Pro Gly
  1           5               10              15
```

```
Leu Gly His Ile His Leu Val Ala Lys Pro Leu Leu Gly Pro Lys Tyr
            20              25              30
```

```
Thr Pro Glu Ser Cys Gln Arg Lys Glu Ile Phe Lys Lys His Arg Gln
        35              40              45
```

```
Ile Val Cys Lys Trp Lys Ile Pro Ile Gly Leu Asp Ser Cys Gly Gly
    50              55              60
```

```
Lys Thr Ser Trp Val Pro Gly Gly Cys Gln Ser Trp Glu Leu Cys Arg
65              70              75              80
```

```
Tyr Glu Ser Gly Lys Ala Gln Arg Gln Ala Glu Ser Leu Tyr Gly Asp
                85              90              95
```

```
Asn Leu Gln Cys Leu Leu Gly Phe Pro Asn Asn Leu Gly Val Gln Ser
            100             105             110
```

```
Ile Gly Phe Phe Ser Pro Leu Pro Thr Pro Arg Lys Ile Ile Arg Lys
        115             120             125
```

```
Met Phe Arg Arg Lys Glu Lys Asn
    130             135
```


```
<210> 5765
```

5055

```
<211> 168
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (34)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (134)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (160)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (161)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (167)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5765
Val Arg Val Gln Glu Val Val Lys Glu Asn Glu Glu Leu His Gln Glu
 1               5                  10                  15

Leu Asn Lys Ser Ser Ala Val Thr Ser Glu Glu Trp Arg Gln Leu Gln
            20              25                  30

Thr Xaa Ala Lys Leu Val Leu Glu Glu Asn Lys Leu Leu Leu Glu Gln
        35              40                  45

Leu Glu Ile Gln Gln Arg Lys Ala Lys Asp Ser His Gln Glu Arg Leu
    50              55                  60

Gln Glu Val Ser Lys Leu Thr Lys Gln Leu Met Leu Leu Glu Ala Lys
65                  70                  75                  80

Thr His Gly Gln Glu Lys Glu Leu Ala Glu Asn Arg Glu Gln Leu Glu
                85                  90                  95

Ile Leu Arg Ala Lys Cys Gln Glu Leu Lys Thr His Ser Asp Gly Lys
                100                 105                 110
```

5056

Ile Ala Val Glu Val His Lys Ser Ile Val Asn Glu Leu Lys Ser Gln
        115   120   125

Leu Gln Lys Glu Glu Xaa Lys Glu Arg Ala Glu Met Glu Glu Leu Met
        130   135   140

Glu Lys Leu Thr Val Leu Gln Ala Gln Lys Lys Ser Leu Leu Leu Xaa
145   150   155   160

Xaa Asn Ile Leu Thr Glu Xaa Asn
                165

<210> 5766
<211> 135
<212> PRT
<213> Homo sapiens

<400> 5766
Ile Arg His Glu Val Val Gly Gly Ser Gly Gly Val Tyr Ala Leu Cys
  1   5   10   15

Ser Ala His Leu Ala Asn Val Val Met Asn Trp Ala Gly Met Arg Cys
            20   25   30

Pro Tyr Lys Leu Leu Arg Met Val Leu Ala Leu Val Cys Met Ser Ser
        35   40   45

Glu Val Gly Arg Ala Val Trp Leu Arg Phe Ser Pro Pro Leu Pro Ala
        50   55   60

Ser Gly Pro Gln Pro Ser Phe Met Ala His Leu Ala Gly Ala Val Val
65   70   75   80

Gly Val Ser Met Gly Leu Thr Ile Leu Arg Ser Tyr Glu Glu Arg Leu
                85   90   95

Arg Asp Gln Cys Gly Trp Trp Val Val Leu Leu Ala Tyr Gly Thr Phe
            100   105   110

Leu Leu Phe Ala Val Phe Trp Asn Val Phe Ala Tyr Asp Leu Leu Gly
        115   120   125

Ala His Ile Pro Pro Pro Pro
        130   135

<210> 5767
<211> 351

5057

<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (35)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5767

```
Ile Arg His Glu Ile Leu Trp Leu Leu Cys Ser His Arg Pro Ala Pro
 1               5                  10                  15

Gly Arg Pro Pro Thr His Asn Ala His Asn Trp Arg Leu Gly Gln Ala
            20                  25                  30

Pro Ala Xaa Trp Tyr Asn Asp Thr Tyr Pro Leu Ser Pro Pro Gln Arg
        35                  40                  45

Thr Pro Ala Gly Ile Arg Tyr Arg Ile Ala Val Ile Ala Asp Leu Asp
    50                  55                  60

Thr Glu Ser Arg Ala Gln Glu Glu Asn Thr Trp Phe Ser Tyr Leu Lys
65                  70                  75                  80

Lys Gly Tyr Leu Thr Leu Ser Asp Ser Gly Asp Lys Val Ala Val Glu
                85                  90                  95

Trp Asp Lys Asp His Gly Val Leu Glu Ser His Leu Ala Glu Lys Gly
            100                 105                 110

Arg Gly Met Glu Leu Ser Asp Leu Ile Val Phe Asn Gly Lys Leu Tyr
            115                 120                 125

Ser Val Asp Asp Arg Thr Gly Val Val Tyr Gln Ile Glu Gly Ser Lys
    130                 135                 140

Ala Val Pro Trp Val Ile Leu Ser Asp Gly Asp Gly Thr Val Glu Lys
145                 150                 155                 160

Gly Phe Lys Ala Glu Trp Leu Ala Val Lys Asp Glu Arg Leu Tyr Val
            165                 170                 175

Gly Gly Leu Gly Lys Glu Trp Thr Thr Thr Thr Gly Asp Val Val Asn
            180                 185                 190

Glu Asn Pro Glu Trp Val Lys Val Val Gly Tyr Lys Gly Ser Val Asp
            195                 200                 205

His Glu Asn Trp Val Ser Asn Tyr Asn Ala Leu Arg Ala Ala Ala Gly
    210                 215                 220
```

5058

```
Ile Gln Pro Pro Gly Tyr Leu Ile His Glu Ser Ala Cys Trp Ser Asp
225             230             235             240

Thr Leu Gln Arg Trp Phe Phe Leu Pro Arg Arg Ala Ser Gln Glu Arg
            245             250             255

Tyr Ser Glu Lys Asp Asp Glu Arg Lys Gly Ala Asn Leu Leu Leu Ser
            260             265             270

Ala Ser Pro Asp Phe Gly Asp Ile Ala Val Ser His Val Gly Ala Val
            275             280             285

Val Pro Thr His Gly Phe Ser Ser Phe Lys Phe Ile Pro Asn Thr Asp
    290             295             300

Asp Gln Ile Ile Val Ala Leu Lys Ser Glu Glu Asp Ser Gly Arg Val
305             310             315             320

Ala Ser Tyr Ile Met Ala Phe Thr Leu Asp Gly Arg Phe Leu Leu Pro
            325             330             335

Glu Thr Lys Ile Gly Ser Val Lys Tyr Glu Gly Ile Glu Phe Ile
            340             345             350
```

```
<210> 5768
<211> 55
<212> PRT
<213> Homo sapiens

<400> 5768
Asn Tyr Gln Ile Ser Glu Ile Tyr Phe Leu Leu Val Thr Met Lys Ser
  1             5             10             15

Thr Phe Thr Leu Glu Ser Asn Cys Asn Thr Pro Lys Ile Arg Ala Thr
            20             25             30

Lys Gly Met Tyr Gly Ala Phe Phe Asn Leu Lys Asn Cys Ile Leu Phe
            35             40             45

Leu Ile Pro Tyr Leu Lys His
    50             55
```

```
<210> 5769
<211> 121
<212> PRT
<213> Homo sapiens
```

5059

```
<400> 5769
Tyr Pro Phe Phe Thr Leu Cys Gln Arg Asn Arg Val Phe Asp Ile Ser
 1               5               10              15

Ser Tyr Val Lys Glu Met Leu Gln Asn Val Asn Cys Phe Lys Leu Lys
            20              25              30

Leu Pro Leu Lys Arg Pro Arg Tyr Ile Tyr Leu Ile Val Tyr Ile Met
            35              40              45

Phe Asn Ile Cys Gln Ser Ile Leu Gln Val Cys Ser Phe Ile Ser Ile
    50              55              60

Lys Tyr Gly Tyr Tyr Val Ala Gln Leu Leu Lys Trp Tyr Cys Ile Val
65              70              75              80

Tyr Ile Cys Thr Pro Asn Asn Ile Val Cys Thr Phe Cys Phe Leu Tyr
            85              90              95

Cys Ile Cys Ala Gly Phe Phe Arg Leu Tyr Gln Cys Asn Leu Cys Leu
            100             105             110

Leu Arg Tyr Val Gln Lys Met Ser Ile
            115             120


<210> 5770
<211> 191
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (181)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5770
Glu Phe Gly Thr Ser His Trp Asp Met Ser Leu Pro Leu Ile Val Thr
 1               5               10              15

Leu Ser Thr Ile Ser Ile Ile Leu Leu Ala Ala Met Ile Thr Ile Ala
            20              25              30

Val Lys Cys Lys Arg Glu Asn Lys Glu Ile Arg Thr Tyr Asn Cys Arg
            35              40              45

Ile Ala Glu Tyr Ser His Pro Gln Leu Gly Gly Gly Lys Gly Lys Lys
    50              55              60

Lys Lys Ile Asn Lys Asn Asp Ile Met Leu Val Gln Ser Glu Val Glu
```

5060

```
        65                    70                    75                    80
    Glu Arg Asn Ala Met Asn Val Met Asn Val Val Ser Ser Pro Ser Leu
                    85                    90                    95

    Ala Thr Ser Pro Met Tyr Phe Asp Tyr Gln Thr Arg Leu Pro Leu Ser
                   100                   105                   110

    Ser Pro Arg Ser Glu Val Met Tyr Leu Lys Pro Ala Ser Asn Asn Leu
                   115                   120                   125

    Thr Val Pro Gln Gly His Ala Gly Cys His Thr Ser Phe Thr Gly Gln
                   130                   135                   140

    Gly Thr Asn Ala Ser Glu Thr Pro Ala Thr Arg Met Ser Ile Ile Gln
    145                   150                   155                   160

    Thr Asp Asn Phe Pro Ala Glu Pro Asn Tyr Met Gly Ser Arg Gln Gln
                   165                   170                   175

    Phe Val Gln Ser Xaa Ser Thr Phe Lys Asp Pro Glu Arg Pro Ala
                   180                   185                   190
```

<210> 5771
<211> 129
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (4)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (95)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5771
```
    Arg Xaa Pro Xaa Leu Thr Lys Gly Asn Lys Ser Trp Ser Ser Thr Ala
     1               5                   10                  15

    Val Thr Thr Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn Ser
                    20                  25                  30
```

5061

Ala Arg Ala Pro Ala Ser Arg Ser Arg Thr Pro Pro Ala Ser Arg Leu
            35   40   45

Thr Arg Ser Cys Gln Arg Arg Ser Ala Ala Ala Glu Pro Lys Gly Pro
    50   55   60

Glu Asp Ser Gly Ala Gly Gly Thr Gly Cys Gly Gly Ala Asp Asp Pro
65   70   75   80

Ala Lys Lys Lys Lys Gln Arg Arg Gln Arg Thr His Phe Thr Xaa Gln
                85   90   95

Gln Leu Gln Glu Leu Glu Ala Thr Phe Gln Arg Asn Arg Tyr Pro Asp
            100   105   110

Met Ser Met Arg Glu Glu Ile Ala Val Trp Thr Asn Leu Thr Glu Pro
        115   120   125

Arg

<210> 5772
<211> 399
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (208)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (349)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5772
Leu Glu Pro Pro Ala Glu Pro Leu Gln Tyr Leu Ala Cys Tyr Arg Phe
 1   5   10   15

His Cys Ser His Gln Leu Gly Asp Asn Met Trp Phe Leu Thr Thr Leu
            20   25   30

Leu Leu Trp Val Pro Val Asp Gly Gln Val Asp Thr Thr Lys Ala Val
            35   40   45

Ile Thr Leu Gln Pro Pro Trp Val Ser Val Phe Gln Glu Glu Thr Val
    50   55   60

5062

```
Thr Leu His Cys Glu Val Leu His Leu Pro Gly Ser Ser Ser Thr Gln
65           ·           70          75              80

Trp Phe Leu Asn Gly Thr Ala Thr Gln Thr Ser Thr Pro Ser Tyr Arg
                85              90              95

Ile Thr Ser Ala Ser Val Asn Asp Ser Gly Glu Tyr Arg Cys Gln Arg
            100             105             110

Gly Leu Ser Gly Arg Ser Asp Pro Ile Gln Leu Glu Ile His Arg Gly
        115             120             125

Trp Leu Leu Leu Gln Val Ser Ser Arg Val Phe Thr Glu Gly Glu Pro
    130             135             140

Leu Ala Leu Arg Cys His Ala Trp Lys Asp Lys Leu Val Tyr Asn Val
145             150             155             160

Leu Tyr Tyr Arg Asn Gly Lys Ala Phe Lys Phe Phe His Trp Asn Ser
            165             170             175

Asn Leu Thr Ile Leu Lys Thr Asn Ile Ser His Asn Gly Thr Tyr His
            180             185             190

Cys Ser Gly Met Gly Lys His Arg Tyr Thr Ser Ala Gly Ile Ser Xaa
        195             200             205

Thr Val Lys Glu Leu Phe Pro Ala Pro Val Leu Asn Ala Ser Val Thr
    210             215             220

Ser Pro Leu Leu Glu Gly Asn Leu Val Thr Leu Ser Cys Glu Thr Lys
225             230             235             240

Leu Leu Leu Gln Arg Pro Gly Leu Gln Leu Tyr Phe Ser Phe Tyr Met
            245             250             255

Gly Ser Lys Thr Leu Arg Gly Arg Asn Thr Ser Ser Glu Tyr Gln Ile
            260             265             270

Leu Thr Ala Arg Arg Glu Asp Ser Gly Leu Tyr Trp Cys Glu Ala Ala
        275             280             285

Thr Glu Asp Gly Asn Val Leu Lys Arg Ser Pro Glu Leu Glu Leu Gln
290             295             300

Val Leu Gly Leu Gln Leu Pro Thr Pro Val Trp Phe His Val Leu Phe
305             310             315             320

Tyr Leu Ala Val Gly Ile Met Phe Leu Val Asn Thr Val Leu Trp Val
            325             330             335
```

5063

```
Thr Ile Arg Lys Glu Leu Lys Arg Lys Lys Lys Trp Xaa Leu Glu Ile
            340             345             350

Ser Leu Asp Ser Gly His Glu Lys Lys Val Ile Ser Ser Leu Gln Glu
            355             360             365

Asp Arg His Leu Glu Glu Glu Leu Lys Cys Gln Glu Gln Lys Glu Glu
    370             375             380

Gln Leu Gln Glu Gly Val His Arg Lys Glu Pro Gln Gly Ala Thr
385             390             395
```

<210> 5773
<211> 164
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (20)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (154)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5773
```
Gly Asp Arg Ala Glu Pro Ser Val Tyr Trp Ala Ala Val Thr Leu Arg
  1           5               10              15

Phe Gln Met Xaa Met Phe Glu Ser Ala Asp Ser Thr Ala Thr Arg Ser
            20              25              30

Gly Gln Asp Leu Trp Ala Glu Ile Cys Ser Cys Leu Pro Asn Pro Glu
            35              40              45

Gln Glu Asp Gly Ala Asn Asn Ala Phe Ser Asp Ser Phe Val Asp Ser
    50              55              60

Cys Pro Glu Gly Glu Gly Gln Arg Glu Val Ala Asp Phe Ala Val Gln
65              70              75              80

Pro Ala Val Lys Pro Trp Ala Pro Leu Gln Asp Ser Glu Val Tyr Leu
            85              90              95

Ala Ser Leu Glu Lys Lys Leu Arg Arg Ile Lys Gly Leu Asn Gln Glu
            100             105             110
```

5064

```
Val Thr Ser Lys Asp Met Leu Arg Thr Leu Ala Gln Ala Lys Lys Glu
        115             120             125
Cys Trp Asp Arg Phe Leu Gln Glu Lys Leu Ala Ser Glu Phe Phe Val
    130             135             140
Asp Gly Leu Asp Ser Asp Glu Ser Thr Xaa Gly Thr Phe Gln Glu Val
145             150                 155             160
Ala Pro Ala Arg
```

```
<210> 5774
<211> 184
<212> PRT
<213> Homo sapiens

<400> 5774
Lys Met Ala Ser Asn Lys Thr Thr Leu Gln Lys Met Gly Lys Lys Gln
  1             5               10              15
Asn Gly Lys Ser Lys Lys Val Glu Glu Ala Glu Pro Glu Glu Phe Val
            20              25              30
Val Glu Lys Val Leu Asp Arg Arg Val Val Asn Gly Lys Val Glu Tyr
        35              40              45
Phe Leu Lys Trp Lys Gly Phe Thr Asp Ala Asp Asn Thr Trp Glu Pro
    50              55              60
Glu Glu Asn Leu Asp Cys Pro Glu Leu Ile Glu Ala Phe Leu Asn Ser
65              70              75              80
Gln Lys Ala Gly Lys Glu Lys Asp Gly Thr Lys Arg Lys Ser Leu Ser
            85              90              95
Asp Ser Glu Ser Asp Asp Ser Lys Ser Lys Lys Lys Arg Asp Ala Ala
            100             105             110
Asp Lys Pro Arg Gly Phe Ala Arg Gly Leu Asp Pro Glu Arg Ile Ile
        115             120             125
Gly Ala Thr Asp Ser Ser Gly Glu Leu Met Phe Leu Met Lys Trp Lys
        130             135             140
Asp Ser Asp Glu Ala Asp Leu Val Leu Ala Lys Glu Ala Asn Met Lys
145             150             155             160
```

5065

Cys Pro Gln Ile Val Ile Ala Phe Tyr Glu Glu Arg Leu Thr Trp His
                165   170   175

Ser Cys Pro Glu Asp Glu Ala Gln
            180

<210> 5775
<211> 76
<212> PRT
<213> Homo sapiens

<400> 5775
Lys Val Thr Glu Asp Thr Ser Ser Val Leu Arg Ser Pro Met Pro Gly
  1   5   10   15

Val Val Val Ala Val Ser Val Lys Pro Gly Asp Ala Val Ala Glu Gly
            20   25   30

Gln Glu Ile Cys Val Ile Glu Ala Met Lys Met Gln Asn Ser Met Thr
        35   40   45

Ala Gly Lys Thr Gly Thr Val Lys Ser Val His Cys Gln Ala Gly Asp
      50   55   60

Thr Val Gly Glu Gly Asp Leu Leu Val Glu Leu Glu
65   70   75

<210> 5776
<211> 57
<212> PRT
<213> Homo sapiens

<400> 5776
Thr Leu Gln Ser Lys Asp Ile Asp Trp Leu Asn Glu Trp Arg Lys Gln
  1   5   10   15

Asp Pro Leu Ile Cys Cys Leu Gln Glu Thr His Leu Asn Tyr Lys Asp
            20   25   30

Thr His Arg Leu Lys Val Lys Ser Trp Lys Glu Leu Phe His Ala Asn
        35   40   45

Gly Asn Gln Glu Lys Glu Lys Glu Tyr
      50   55

5066

```
<210> 5777
<211> 277
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (12)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (91)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (125)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5777
Arg Gln Lys Gly Thr Ala Ala Arg Arg Arg Gln Xaa Gly Leu Leu Ala
 1               5                  10                  15

Ser Ser Arg Pro Glu Pro Ala Asn Glu Arg Lys Met Ala Asp Asn Phe
            20                  25                  30

Ser Leu His Asp Ala Leu Ser Gly Ser Gly Asn Pro Asn Pro Gln Gly
        35                  40                  45

Trp Pro Gly Ala Trp Gly Asn Gln Pro Ala Gly Ala Gly Gly Tyr Pro
    50                  55                  60

Gly Ala Ser Tyr Pro Gly Ala Tyr Pro Gly Gln Ala Pro Pro Gly Ala
65                  70                  75                  80

Tyr Pro Gly Gln Ala Pro Pro Gly Ala Tyr Xaa Gly Ala Pro Gly Ala
                85                  90                  95

Tyr Pro Gly Ala Pro Ala Pro Gly Val Tyr Pro Gly Pro Pro Ser Gly
            100                 105                 110

Pro Gly Ala Tyr Pro Ser Ser Gly Gln Pro Ser Ala Xaa Gly Ala Tyr
        115                 120                 125

Pro Ala Thr Gly Pro Tyr Gly Ala Pro Ala Gly Pro Leu Ile Val Pro
    130                 135                 140

Tyr Asn Leu Pro Leu Pro Gly Gly Val Val Pro Arg Met Leu Ile Thr
145                 150                 155                 160
```

5067

```
Ile Leu Gly Thr Val Lys Pro Asn Ala Asn Arg Ile Ala Leu Asp Phe
                165             170             175

Gln Arg Gly Asn Asp Val Ala Phe His Phe Asn Pro Arg Phe Asn Glu
            180             185             190

Asn Asn Arg Arg Val Ile Val Cys Asn Thr Lys Leu Asp Asn Asn Trp
        195             200             205

Gly Arg Glu Glu Arg Gln Ser Val Phe Pro Phe Glu Ser Gly Lys Pro
    210             215             220

Phe Lys Ile Gln Val Leu Val Glu Pro Asp His Phe Lys Val Ala Val
225             230             235             240

Asn Asp Ala His Leu Leu Gln Tyr Asn His Arg Val Lys Lys Leu Asn
            245             250             255

Glu Ile Ser Lys Leu Gly Ile Ser Gly Asp Ile Asp Leu Thr Ser Ala
            260             265             270

Ser Tyr Thr Met Ile
            275
```

<210> 5778
<211> 565
<212> PRT
<213> Homo sapiens

<400> 5778
```
Leu His Cys Thr Met Cys Gly Ile Trp Ala Leu Phe Gly Ser Asp Asp
  1             5             10             15

Cys Leu Ser Val Gln Cys Leu Ser Ala Met Lys Ile Ala His Arg Gly
            20             25             30

Pro Asp Ala Phe Arg Phe Glu Asn Val Asn Gly Tyr Thr Asn Cys Cys
        35             40             45

Phe Gly Phe His Arg Leu Ala Val Val Asp Pro Leu Phe Gly Met Gln
    50             55             60

Pro Ile Arg Val Lys Lys Tyr Pro Tyr Leu Trp Leu Cys Tyr Asn Gly
65             70             75             80

Glu Ile Tyr Asn His Lys Lys Met Gln Gln His Phe Glu Phe Glu Tyr
            85             90             95

Gln Thr Lys Val Asp Gly Glu Ile Ile Leu His Leu Tyr Asp Lys Gly
```

5068

```
                100                    105                    110
Gly Ile Glu Gln Thr Ile Cys Met Leu Asp Gly Val Phe Ala Phe Val
            115                120                125

Leu Leu Asp Thr Ala Asn Lys Lys Val Phe Leu Gly Arg Asp Thr Tyr
    130                135                140

Gly Val Arg Pro Leu Phe Lys Ala Met Thr Glu Asp Gly Phe Leu Ala
145                150                155                160

Val Cys Ser Glu Ala Lys Gly Leu Val Thr Leu Lys His Ser Ala Thr
            165                170                175

Pro Phe Leu Lys Val Glu Pro Phe Leu Pro Gly His Tyr Glu Val Leu
            180                185                190

Asp Leu Lys Pro Asn Gly Lys Val Ala Ser Val Glu Met Val Lys Tyr
            195                200                205

His His Cys Arg Asp Glu Pro Leu His Ala Leu Tyr Asp Asn Val Glu
    210                215                220

Lys Leu Phe Pro Gly Phe Glu Ile Glu Thr Val Lys Asn Asn Leu Arg
225                230                235                240

Ile Leu Phe Asn Asn Ala Val Lys Lys Arg Leu Met Thr Asp Arg Arg
            245                250                255

Ile Gly Cys Leu Leu Ser Gly Gly Leu Asp Ser Ser Leu Val Ala Ala
            260                265                270

Thr Leu Leu Lys Gln Leu Lys Glu Ala Gln Val Gln Tyr Pro Leu Gln
    275                280                285

Thr Phe Ala Ile Gly Met Glu Asp Ser Pro Asp Leu Leu Ala Ala Arg
    290                295                300

Lys Val Ala Asp His Ile Gly Ser Glu His Tyr Glu Val Leu Phe Asn
305                310                315                320

Ser Glu Glu Gly Ile Gln Ala Leu Asp Glu Val Ile Phe Ser Leu Glu
            325                330                335

Thr Tyr Asp Ile Thr Thr Val Arg Ala Ser Val Gly Met Tyr Leu Ile
            340                345                350

Ser Lys Tyr Ile Arg Lys Asn Thr Asp Ser Val Val Ile Phe Ser Gly
    355                360                365

Glu Gly Ser Asp Glu Leu Thr Gln Gly Tyr Ile Tyr Phe His Lys Ala
```

5069

```
        370                    375                    380

Pro Ser Pro Glu Lys Ala Glu Glu Glu Ser Glu Arg Leu Leu Arg Glu
385              390              395              400

Leu Tyr Leu Phe Asp Val Leu Arg Ala Asp Arg Thr Thr Ala Ala His
                405              410              415

Gly Leu Glu Leu Arg Val Pro Phe Leu Asp His Arg Phe Ser Ser Tyr
            420              425              430

Tyr Leu Ser Leu Pro Pro Glu Met Arg Ile Pro Lys Asn Gly Ile Glu
            435              440              445

Lys His Leu Leu Arg Glu Thr Phe Glu Asp Ser Asn Leu Ile Pro Lys
        450              455              460

Glu Ile Leu Trp Arg Pro Lys Glu Ala Phe Ser Asp Gly Ile Thr Ser
465              470              475              480

Val Lys Asn Ser Trp Phe Lys Ile Leu Gln Glu Tyr Val Glu His Gln
                485              490              495

Val Asp Asp Ala Met Met Ala Asn Ala Ala Gln Lys Phe Pro Phe Asn
            500              505              510

Thr Pro Lys Thr Lys Glu Gly Tyr Tyr Tyr Arg Gln Val Phe Glu Arg
            515              520              525

His Tyr Pro Gly Arg Ala Asp Trp Leu Ser His Tyr Trp Met Pro Lys
        530              535              540

Trp Ile Asn Ala Thr Asp Pro Ser Ala Arg Thr Leu Thr His Tyr Lys
545              550              555              560

Ser Ala Val Lys Ala
            565
```

<210> 5779
<211> 173
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (110)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5779

5070

```
Cys Phe Ala Ser Asp Arg Ile Ser Leu His Arg Asp Leu Gly Pro Asp
 1               5               10              15

Thr Arg Pro Pro Glu Cys Ile Glu Gln Lys Phe Lys Arg Cys Pro Pro
             20              25              30

Leu Pro Thr Thr Ser Val Ile Ile Val Phe His Asn Glu Ala Trp Ser
         35              40              45

Thr Leu Leu Arg Thr Val His Ser Val Leu Tyr Ser Ser Pro Ala Ile
     50              55              60

Leu Leu Lys Glu Ile Ile Leu Val Asp Asp Ala Ser Val Asp Glu Tyr
 65              70              75              80

Leu His Asp Lys Leu Asp Glu Tyr Val Lys Gln Phe Ser Ile Val Lys
             85              90              95

Ile Val Arg Gln Arg Glu Arg Lys Gly Leu Ile Thr Ala Xaa Leu Leu
             100             105             110

Gly Ala Thr Val Ala Thr Ala Glu Thr Leu Thr Phe Leu Asp Ala His
         115             120             125

Cys Glu Cys Phe Tyr Gly Trp Leu Glu Pro Leu Leu Ala Arg Ile Ala
     130             135             140

Glu Asn Tyr Thr Ala Val Val Ser Pro Asp Ile Ala Ser Ile Asp Leu
145             150             155             160

Asn Thr Phe Glu Phe Asn Lys Pro Ser Pro Tyr Gly Lys
             165             170
```

```
<210> 5780
<211> 49
<212> PRT
<213> Homo sapiens

<400> 5780
Glu Lys Leu Thr Asp Leu Asn Lys Trp Gly Ser Thr Pro Cys Ser Thr
 1               5               10              15

Ile Gly Lys Leu Arg Ile Val Lys Met Ser Phe Leu Pro Lys Leu Ile
             20              25              30

Tyr Lys Ser Gln Lys Thr Phe Phe Leu Gln Thr Leu Ile Lys Val Val
         35              40              45

Phe
```

```
<210> 5781
<211> 63
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (25)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (32)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (33)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (36)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (38)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (41)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (42)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (43)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
```

<222> (46)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (48)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (51)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (60)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5781
Ser Cys Lys Lys Asp Met Lys Asn Met Asn Tyr Cys Thr Ser His Cys
 1   5   10   15

Tyr Phe His Val Gln Tyr Ser Arg Xaa Ile Leu Thr Thr Ile Asp Xaa
            20   25   30

Xaa Leu Lys Xaa Val Xaa Gly Lys Xaa Xaa Xaa Ile Leu Xaa Ile Xaa
        35   40   45

Ile Ala Xaa Glu Arg Arg Ile Gln Gly Pro Glu Xaa Gly Ala Thr
    50   55   60

<210> 5782
<211> 104
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (75)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5782
Met Arg Arg Val Ile Leu His Ser Pro Leu Met Ser Gly Leu Arg Val
 1   5   10   15

Ala Phe Pro Asp Thr Arg Lys Thr Tyr Cys Phe Asp Ala Phe Pro Ser
            20   25   30

Ile Asp Lys Ile Ser Lys Val Thr Ser Pro Val Leu Val Ile His Gly

5073

```
          35                    40                    45
Thr Glu Asp Glu Val Ile Asp Phe Ser His Gly Leu Ala Met Tyr Glu
        50                    55                    60
Arg Cys Pro Arg Ala Val Glu Pro Leu Trp Xaa Glu Gly Ala Gly His
65                    70                    75                    80
Asn Asp Ile Glu Leu Tyr Ala Gln Tyr Leu Glu Arg Leu Lys Gln Phe
                    85                    90                    95
Ile Ser His Glu Leu Pro Asn Ser
                    100
```

```
<210> 5783
<211> 219
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (5)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (13)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (43)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5783
Ser Phe Arg Leu Xaa Cys Glu Leu Arg Arg Cys Met Xaa Gly Asn Asn
 1               5                    10                    15
Met Ser Thr Pro Leu Pro Ala Ile Val Pro Ala Ala Arg Lys Ala Thr
                20                    25                    30
Ala Ala Val Ile Phe Leu His Gly Leu Gly Xaa Thr Gly Pro Val Arg
            35                    40                    45
Pro Val Thr Leu Asn Met Asn Val Ala Met Pro Ser Trp Phe Asp Ile
        50                    55                    60
Ile Gly Leu Ser Pro Asp Ser Gln Glu Asp Glu Ser Gly Ile Lys Gln
65                    70                    75                    80
```

5074

```
Ala Ala Glu Asn Ile Lys Ala Leu Ile Asp Gln Glu Val Lys Asn Gly
                85                  90              95

Ile Pro Ser Asn Arg Ile Ile Leu Gly Gly Phe Ser Gln Gly Gly Ala
            100             105             110

Leu Ser Leu Tyr Thr Ala Leu Thr Thr Gln Gln Lys Leu Ala Gly Val
        115             120             125

Thr Ala Leu Ser Cys Trp Leu Pro Leu Arg Ala Ser Phe Pro Gln Gly
    130             135             140

Pro Ile Gly Gly Ala Asn Arg Asp Ile Ser Ile Leu Gln Cys His Gly
145             150             155             160

Asp Cys Asp Pro Leu Val Pro Leu Met Phe Gly Ser Leu Thr Val Glu
            165             170             175

Lys Leu Lys Thr Leu Val Asn Pro Ala Asn Val Thr Phe Lys Thr Tyr
            180             185             190

Glu Gly Met Met His Ser Ser Cys Gln Gln Glu Met Met Asp Val Lys
        195             200             205

Gln Phe Ile Asp Lys Leu Leu Pro Pro Ile Asp
    210             215
```

```
<210> 5784
<211> 326
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (123)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (136)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5784
Pro Arg His Gly Gln His His Arg Glu Gln Gly Asp Thr Ala Ile Leu
  1             5               10              15

Arg Cys Val Val Glu Asp Lys Asn Ser Lys Val Ala Trp Leu Asn Arg
            20              25              30
```

5075

Ser Gly Ile Ile Phe Ala Gly His Asp Lys Trp Ser Leu Asp Pro Arg
          35   40   45

Val Glu Leu Glu Lys Arg His Ser Leu Glu Tyr Ser Leu Arg Ile Gln
      50   55   60

Lys Val Asp Val Tyr Asp Glu Gly Ser Tyr Thr Cys Ser Val Gln Thr
65   70   75   80

Gln His Glu Pro Lys Thr Ser Gln Val Tyr Leu Ile Val Gln Val Pro
              85   90   95

Pro Lys Ile Ser Asn Ile Ser Ser Asp Val Thr Val Asn Glu Gly Ser
              100   105   110

Asn Val Thr Leu Val Cys Met Ala Asn Gly Xaa Pro Glu Pro Val Ile
          115   120   125

Thr Trp Arg His Leu Thr Pro Xaa Gly Arg Glu Phe Glu Gly Glu Glu
      130   135   140

Glu Tyr Leu Glu Ile Leu Gly Ile Thr Arg Glu Gln Ser Gly Lys Tyr
145   150   155   160

Glu Cys Lys Ala Ala Asn Glu Val Ser Ser Ala Asp Val Lys Gln Val
              165   170   175

Lys Val Thr Val Asn Tyr Pro Pro Thr Ile Thr Glu Ser Lys Ser Asn
          180   185   190

Glu Ala Thr Thr Gly Arg Gln Ala Ser Leu Lys Cys Glu Ala Ser Ala
          195   200   205

Val Pro Ala Pro Asp Phe Glu Trp Tyr Arg Asp Asp Thr Arg Ile Asn
210   215   220

Ser Ala Asn Gly Leu Glu Ile Lys Ser Thr Glu Gly Gln Ser Ser Leu
225   230   235   240

Thr Val Thr Asn Val Thr Glu Glu His Tyr Gly Asn Tyr Thr Cys Val
          245   250   255

Ala Ala Asn Lys Leu Gly Val Thr Asn Ala Ser Leu Val Leu Phe Lys
          260   265   270

Arg Val Leu Pro Thr Ile Pro His Pro Ile Gln Glu Ile Gly Thr Thr
      275   280   285

Val His Phe Lys Gln Lys Gly Pro Gly Ser Val Arg Gly Ile Asn Gly
      290   295   300

5076

```
Ser Ile Ser Leu Ala Val Pro Leu Trp Leu Leu Ala Ala Ser Leu Leu
305             310         315             320

Cys Leu Leu Ser Lys Cys
                325



<210> 5785
<211> 217
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (76)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (191)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (208)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (213)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5785
Pro Thr Arg Pro Ala Glu Lys Asp Pro Gly Arg Ser Ala Pro Gly Ala
  1             5             10             15

Ala Ser Ala Ala Ala Ala Leu Lys Gln Leu Gly Asp Ser Pro Ala Glu
            20             25             30

Asp Lys Ser Ser Phe Lys Pro Tyr Ser Lys Gly Ser Gly Gly Gly Asp
            35             40             45

Ser Arg Lys Asp Ser Gly Ser Ser Ser Val Ser Ser Thr Ser Ser Ser
      50             55             60

Ser Ser Ser Ser Pro Gly Asp Lys Ala Gly Phe Xaa Val Pro Ser Ala
 65             70             75             80

Ala Cys Pro Pro Phe Pro Pro His Gly Ala Pro Val Ser Ala Ser Ser
```

5077

```
                    85                    90                    95

Ser Ser Ser Ser Pro Gly Gly Ser Arg Gly Gly Ser Pro His His Ser
            100                 105                 110

Asp Cys Lys Asn Gly Gly Gly Val Gly Gly Gly Glu Leu Asp Lys Lys
            115                 120                 125

Asp Gln Glu Pro Lys Pro Ser Pro Glu Pro Ala Ala Val Ser Arg Gly
        130                 135                 140

Gly Gly Gly Glu Pro Gly Ala His Gly Gly Ala Glu Ser Gly Ala Ser
145                 150                 155                 160

Gly Arg Lys Ser Glu Pro Pro Ser Ala Leu Val Gly Ala Gly His Val
                165                 170                 175

Ala Pro Val Ser Pro Thr Ser Arg Ala Thr Arg Cys Ser Arg Xaa Arg
                180                 185                 190

Leu Gln His Trp Leu Pro Arg Leu His Arg Gly Arg Leu Arg Arg Xaa
        195                 200                 205

Pro Val Leu Ile Xaa Ala Trp Pro Gly
    210                 215
```

```
<210> 5786
<211> 69
<212> PRT
<213> Homo sapiens

<400> 5786
Pro Gln Lys Lys Tyr Phe Met Trp Val Phe Cys Phe Ser Leu Leu Asp
  1               5                  10                  15

Phe Met Asp Glu Gly Ile Trp Leu Thr Phe Tyr Phe Leu Met Glu Gln
            20                  25                  30

Pro Val Phe Val Asn Tyr Ser Leu Val Asn Cys Glu Ile Leu Asn Ser
            35                  40                  45

Leu Pro Ala Ile Leu Val Leu Val Ser Gly Gln Ile Tyr Ala Val Val
        50                  55                  60

Leu Met Arg Leu Val
    65
```

5078

<210> 5787
<211> 145
<212> PRT
<213> Homo sapiens

<400> 5787
His Cys Ser Glu Gly His Ala Lys Ser Arg His Arg Ser Trp Gln Gln
1   5   10   15

Glu Gly Asp Arg Ala Ser Pro Arg His Thr Ser Pro Gly Gly Asp Ser
            20   25   30

Gly Lys Glu Pro Arg Thr Gly Lys Asp Trp Val Gly Glu Gly Val Arg
        35   40   45

Gly Leu Val Val Thr Gln Ser Trp Arg Gly Ala Lys Ser Thr Gly Gly
    50   55   60

Tyr Pro Leu Ala Ala Ser Ala Leu Ala Val Cys Pro Phe Met Ser Gln
65   70   75   80

Thr Ala Thr Thr Met Tyr Leu Gln Trp Gly Cys Arg Asp Gly Gly Asp
            85   90   95

Ser Ser Leu Thr Pro Gln Glu Leu Pro Gly Pro Lys Glu Glu Asn Ala
        100   105   110

Ala Ser Phe Gln Ser Gly Leu His Pro Leu Ser Gly Ser Leu Ser Ala
        115   120   125

Ser Cys Asn Ser Gly Cys Phe Ser Arg Leu Ser Ser Asn Ser Ala Pro
    130   135   140

Pro
145

<210> 5788
<211> 113
<212> PRT
<213> Homo sapiens

<400> 5788
Leu Arg Arg Pro Phe Leu Met Leu Leu Leu Asp Leu Met Ser Ser Pro
1   5   10   15

Ser Pro Gln Leu Leu Val Ala Ala Ala Gln Gln Thr Leu Gly Met Gly
            20   25   30

Lys Arg Arg Ser Pro Pro Gln Ala Ile Cys Leu His Leu Ala Gly Glu

5079

```
            35                    40                    45
Val Leu Ala Val Ala Arg Gly Leu Lys Pro Ala Val Leu Tyr Asp Cys
        50                    55                    60

Asn Cys Ala Gly Ala Ser Glu Leu Gln Ser Tyr Leu Glu Glu Leu Lys
    65                    70                    75                    80

Gly Leu Gly Phe Leu Thr Phe Gly Leu His Ile Leu Glu Ile Gly Glu
                    85                    90                    95

Asn Ser Leu Ile Val Ser Pro Glu His Val Cys Gln His Leu Glu Gln
                    100                   105                   110

Val
```

<210> 5789
<211> 32
<212> PRT
<213> Homo sapiens

<400> 5789
```
Lys Phe Ser Gln Ala Trp Trp His Met Pro Ile Val Pro Ala Ile Trp
  1               5               10                  15

Val Ala Lys Val Gly Glu Leu Leu Glu Pro Gly Arg Ser Arg Leu Gln
                20                  25                  30
```

<210> 5790
<211> 67
<212> PRT
<213> Homo sapiens

<400> 5790
```
Val Tyr Lys Met Phe Ser Met Arg Asn Gln Glu Thr Tyr Thr Gly Leu
  1               5               10                  15

Thr Val Val Ser Tyr Met Ser Pro Gln Phe Gln Cys Ala Cys Ser Leu
                20                  25                  30

Thr Ser Pro Phe Pro Asn Pro Ser Leu Leu Gly Cys Cys Phe Lys Val
                35                  40                  45
```

5080

```
Cys Pro Ser Pro Asn Leu Asp Phe Tyr Tyr Arg Ser Lys Ala Leu Ser
     50                  55                  60

Ile Leu Tyr
 65
```

```
<210> 5791
<211> 77
<212> PRT
<213> Homo sapiens

<400> 5791
Trp Leu Leu Cys Pro Val Arg Val Phe Ser Ser Leu Thr Trp Val His
 1               5               10                  15

Phe Leu Met Ala His Met Lys Phe Gly Ser Tyr Gly Leu Thr Leu Ala
             20              25                  30

Met Val Leu Ser Tyr Gly Glu Gln His Gln Arg Pro Val Thr Cys Lys
             35              40                  45

Leu Lys Ile Gln Cys Gln Gly Pro Ser Pro Ala Pro Leu Ile Glu Asn
     50              55                  60

Leu Leu Ala Ile Cys Ile Phe Arg Cys Ser Arg Leu Val
 65              70                  75
```

```
<210> 5792
<211> 120
<212> PRT
<213> Homo sapiens

<400> 5792
Tyr Val Tyr Leu Ile Ile Leu Pro Leu Ala Lys Cys Tyr Val Cys Lys
 1               5               10                  15

Met Trp His Leu Leu Val Phe Ile Val Cys Val Phe Phe Val Tyr Tyr
             20              25                  30

Thr Leu Gly Asn Phe Val Leu Pro Lys Lys Lys Lys Arg Lys Cys
             35              40                  45

Asn Val Arg His Thr Arg Lys Ala Asn Gln Cys Cys Lys Leu Lys Val
     50              55                  60

Gln Phe Gln Arg Ser Leu Pro Thr Ala Gly Phe Phe Leu Tyr Phe Lys
 65              70                  75                  80
```

5081

Asn Ile Met Leu His Ile Ile Ala Ile Phe Ile Phe Trp Gly Phe Ala
                85   90   95

Thr Leu Ile Gln Trp Asn Gln Trp Lys Cys His Pro Ala Thr Glu Leu
            100   105   110

Pro Leu Leu Tyr Leu Lys Ser Phe
        115   120

<210> 5793
<211> 104
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (42)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (66)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (74)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (82)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5793
Leu Leu Gly Ser Cys Leu Gln Glu Ala Met Thr Leu Asn Ser Glu Pro
  1   5   10   15

Tyr Ser Val Leu Thr Ser Gly Ser His Val Phe Leu Cys Gln Val Ile
            20   25   30

Lys Tyr Leu Val Leu Val Phe Cys Leu Xaa Pro Lys Leu Pro Leu Trp
        35   40   45

Val His Arg Arg Leu Gly Ser Ile Val Arg Met Ala Ile Arg Glu Tyr
        50   55   60

Lys Xaa Gly Phe Ser Arg Ala Trp Glu Xaa Ile Leu Glu Pro Arg Arg

5082

```
          65                    70                    75                    80

Ala Xaa Pro Ala Leu Arg Ser Phe Gly Val Glu Met Gln Pro Trp Glu
                85                    90                    95

Ile Trp Gly Val Ser Arg Pro Val
                100
```

```
<210> 5794
<211> 36
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (13)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5794
Asp Leu Lys Arg Lys Ser Lys Ser Phe Tyr Tyr Asp Xaa Ile Pro Val
  1               5                   10                  15

Glu Tyr Leu Lys Gly Thr Pro His Leu Asn Asn Gln Cys Lys Tyr Phe
                20                    25                    30

Leu Ser Lys Leu
          35
```

```
<210> 5795
<211> 96
<212> PRT
<213> Homo sapiens

<400> 5795
Ile Ala Arg Leu Val Gly Phe Ala Thr Cys Gly Ser Pro Arg Gly Ser
  1               5                   10                  15

Lys Asn Gly Gly Arg Arg Gly Gly Gly Pro Gly Arg Glu Trp Val
                20                    25                    30

Glu Leu Glu Pro Gln Lys Ser Ala Glu Leu Arg Gly Arg Ala Gly Arg
                35                    40                    45

Lys Gly Gly Gly Ala Ala Gly Ala Arg Gly His Pro Ala Ala Gly Cys
          50                    55                    60

Ser Asp Arg Gly Lys Cys Leu Glu Asn Cys Gly Leu Arg Cys Leu Tyr
```

5083

```
          65                      70                      75                      80
       Asp Ala Val Leu Leu Glu Pro Trp Arg Lys Met Glu Leu Val Leu Gln
                           85                      90                      95
```

<210> 5796
<211> 220
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (26)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (30)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (33)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (36)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (37)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5796
```
       Phe Gly Gly Ala Tyr Asp Gly Lys Tyr Glu Lys Thr Leu Tyr Gly His
         1                 5                      10                      15

       Asn Leu Glu Ile Ser Asp Val Ala Trp Xaa Ser Asp Ser Xaa Arg Leu
                           20                      25                      30

       Xaa Ser Ala Xaa Xaa Asp Lys Thr Leu Lys Leu Trp Asp Val Arg Ser
                     35                      40                      45

       Gly Lys Cys Leu Lys Thr Leu Lys Gly His Ser Asn Tyr Val Phe Cys
```

5084

```
              50                      55                      60

     Cys Asn Phe Asn Pro Pro Ser Asn Leu Ile Ile Ser Gly Ser Phe Asp
      65                  70                  75                  80

     Glu Thr Val Lys Ile Trp Glu Val Lys Thr Gly Lys Cys Leu Lys Thr
                      85                  90                  95

     Leu Ser Ala His Ser Asp Pro Val Ser Ala Val His Phe Asn Cys Ser
                     100                 105                 110

     Gly Ser Leu Ile Val Ser Gly Ser Tyr Asp Gly Leu Cys Arg Ile Trp
                     115                 120                 125

     Asp Ala Ala Ser Gly Gln Cys Leu Lys Thr Leu Val Asp Asp Asp Asn
             130                 135                 140

     Pro Pro Val Ser Phe Val Lys Phe Ser Pro Asn Gly Lys Tyr Ile Leu
     145                 150                 155                 160

     Thr Ala Thr Leu Asp Asn Thr Leu Lys Leu Trp Asp Tyr Ser Arg Gly
                     165                 170                 175

     Arg Cys Leu Lys Thr Tyr Thr Gly His Lys Asn Glu Lys Tyr Cys Ile
                     180                 185                 190

     Phe Ala Asn Phe Ser Val Thr Gly Gly Lys Trp Ile Val Ser Gly Ser
             195                 200                 205

     Glu Asp Asn Arg Val Tyr Ile Trp Glu Pro Ser Asp
         210                 215                 220
```

```
<210> 5797
<211> 131
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (8)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (88)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
```

5085

<222> (101)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5797
Asp Pro Arg Val Arg Thr Arg Xaa Pro Asn Met Tyr Gln Val Val Leu
 1   5   10   15

Leu Phe Val Val Val Pro Glu Leu Gln Glu His Gln Ser Lys Pro Ser
             20   25   30

Arg Pro Ser Pro Arg Val Ala Asp Asn Pro Glu Glu Gly Arg Glu Pro
         35   40   45

His Asn Asp Arg Pro Val Ser Met Ala Phe Gly Cys Gln Pro Glu His
     50   55   60

Val Tyr Ala Glu Cys Gly Lys Thr Tyr Arg Pro Pro Pro Thr Pro Lys
 65   70   75   80

Leu Phe Pro Gln Ser Thr Val Xaa Asn Thr Thr Pro Ser Phe Thr Ser
             85   90   95

Gly Thr Gln Glu Xaa Leu Phe Val Phe Leu Ile Ser Ile Ser Arg Arg
             100   105   110

Leu Phe Ser Thr Pro Leu Phe Leu Pro Pro Gln Phe Ala Ile Pro Leu
             115   120   125

Leu Ala Leu
     130

<210> 5798
<211> 239
<212> PRT
<213> Homo sapiens

<400> 5798
Gln Pro Pro Gly Thr Arg Asp Pro Ala Pro Pro Leu Ile Thr Pro Ala
 1   5   10   15

Thr Pro Gln Leu Ser Ala Ala Pro Asp Ala Met Asp Pro Ala Leu Ala
             20   25   30

Ala Gln Met Ser Glu Ala Val Ala Glu Lys Met Leu Gln Tyr Arg Arg
             35   40   45

Asp Thr Ala Gly Trp Lys Ile Cys Arg Glu Gly Asn Gly Val Ser Val
     50   55   60

5086

```
Ser Trp Arg Pro Ser Val Glu Phe Pro Gly Asn Leu Tyr Arg Gly Glu
 65              70              75              80

Gly Ile Val Tyr Gly Thr Leu Glu Glu Val Trp Asp Cys Val Lys Pro
             85              90              95

Ala Val Gly Gly Leu Arg Val Lys Trp Asp Glu Asn Val Thr Gly Phe
             100             105             110

Glu Ile Ile Gln Ser Ile Thr Asp Thr Leu Cys Val Ser Arg Thr Ser
             115             120             125

Thr Pro Ser Ala Ala Met Lys Leu Ile Ser Pro Arg Asp Phe Val Asp
     130             135             140

Leu Val Leu Val Lys Arg Tyr Glu Asp Gly Thr Ile Ser Ser Asn Ala
145             150             155             160

Thr His Val Glu His Pro Leu Cys Pro Pro Lys Pro Gly Phe Val Arg
             165             170             175

Gly Phe Asn His Pro Cys Gly Cys Phe Cys Glu Pro Leu Pro Gly Glu
             180             185             190

Pro Thr Lys Thr Asn Leu Val Thr Phe Phe His Thr Asp Leu Ser Gly
     195             200             205

Tyr Leu Pro Gln Asn Val Val Asp Ser Phe Phe Pro Arg Ser Met Thr
     210             215             220

Arg Phe Tyr Ala Asn Leu Gln Lys Ala Val Lys Gln Phe His Glu
225             230             235
```

```
<210> 5799
<211> 66
<212> PRT
<213> Homo sapiens

<400> 5799
Ala Tyr Thr Thr Met Thr Glu Asn Lys Arg Leu Phe Phe Glu Thr Pro
 1           5              10              15

Ser Gln Lys Gln Asn Lys Thr Lys Lys Leu Asp Lys Cys Tyr Ile Asn
             20              25              30

Val Trp Val Val Arg Phe Tyr Phe Glu Ser Glu Val Cys Arg Tyr Ala
             35              40              45

Tyr Arg Phe Leu Glu Phe Thr Thr Phe Leu Phe Cys Ile Ile Asn Val
```

5087

```
        50              55              60

 Ile Phe
  65



<210> 5800
<211> 173
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (55)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (62)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (164)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (165)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (166)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (168)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5800
Arg His Glu Asp Phe Thr Asp Thr Ala Tyr Leu Phe Lys Ile Gln Ile
  1               5              10              15


Glu Ser Leu Asn Asp Lys Leu Gln Asn Ala Lys Glu Gln Leu Arg Glu
             20              25              30


Lys Glu Phe Ile Met Leu Gln Asn Glu Gln Glu Ile Ser Gln Leu Lys
         35              40              45
```

5088

```
Lys Glu Ile Glu Arg Thr Xaa Gln Arg Met Lys Glu Met Xaa Ser Val
    50              55              60

Met Lys Glu Gln Glu Gln Tyr Ile Ala Thr Gln Tyr Lys Glu Ala Ile
65              70              75              80

Asp Leu Gly Gln Glu Leu Arg Leu Thr Arg Glu Gln Val Gln Asn Ser
            85              90                  95

His Thr Glu Leu Ala Glu Ala Arg His Gln Gln Val Gln Ala Gln Arg
            100             105             110

Glu Ile Glu Arg Leu Ser Ser Glu Leu Glu Asp Met Lys Gln Leu Ser
        115             120             125

Lys Glu Lys Asp Ala His Gly Asn His Leu Ala Glu Glu Leu Gly Ala
    130             135             140

Ser Lys Gly Arg Glu Ala Tyr Leu Glu Ala Arg Met Gln Ala Glu Ile
145             150             155             160

Lys Lys Leu Xaa Xaa Xaa Val Xaa Ile Ser Ser Lys Lys
                165             170
```

```
<210> 5801
<211> 719
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (302)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5801
Phe Lys Val Ile Phe Leu Leu Gln Asp Gly Ile Val Asn Pro Thr Ile
1               5               10              15

Arg Lys Asp Leu Lys Thr Gly Pro Lys Phe Tyr Cys Cys Pro Ile Glu
            20              25              30

Gly Cys Pro Arg Gly Pro Glu Arg Pro Phe Ser Gln Phe Ser Leu Val
            35              40              45

Lys Gln His Phe Met Lys Met His Ala Glu Lys Lys His Lys Cys Ser
    50              55              60

Lys Cys Ser Asn Ser Tyr Gly Thr Glu Trp Asp Leu Lys Arg His Ala
```

5089

```
    65                    70                    75                    80

Glu Asp Cys Gly Lys Thr Phe Arg Cys Thr Cys Gly Cys Pro Tyr Ala
            85                    90                    95

Ser Arg Thr Ala Leu Gln Ser His Ile Tyr Arg Thr Gly His Glu Ile
            100                   105                   110

Pro Ala Glu His Arg Asp Pro Pro Ser Lys Lys Arg Lys Met Glu Asn
            115                   120                   125

Cys Ala Gln Asn Gln Lys Leu Ser Asn Lys Thr Ile Glu Ser Leu Asn
    130                   135                   140

Asn Gln Pro Ile Pro Arg Pro Asp Thr Gln Glu Leu Glu Ala Ser Glu
145                   150                   155                   160

Ile Lys Leu Glu Pro Ser Phe Glu Asp Ser Cys Gly Ser Asn Thr Asp
                165                   170                   175

Lys Gln Thr Leu Thr Thr Pro Pro Arg Tyr Pro Gln Lys Leu Leu Leu
            180                   185                   190

Pro Lys Pro Lys Val Ala Leu Val Lys Leu Pro Val Met Gln Phe Ser
            195                   200                   205

Val Met Pro Val Phe Val Pro Thr Ala Asp Ser Ser Ala Gln Pro Val
    210                   215                   220

Val Leu Gly Val Asp Gln Gly Ser Ala Thr Gly Ala Val His Leu Met
225                   230                   235                   240

Pro Leu Ser Val Gly Thr Leu Ile Leu Gly Leu Asp Ser Glu Ala Cys
                245                   250                   255

Ser Leu Lys Glu Ser Leu Pro Leu Phe Lys Ile Ala Asn Pro Ile Ala
            260                   265                   270

Gly Glu Pro Ile Ser Thr Gly Val Gln Val Asn Phe Gly Lys Ser Pro
            275                   280                   285

Ser Asn Pro Leu Gln Glu Leu Gly Asn Thr Cys Gln Lys Xaa Ser Ile
    290                   295                   300

Ser Ser Ile Asn Val Gln Thr Asp Leu Ser Tyr Ala Ser Gln Asn Phe
305                   310                   315                   320

Ile Pro Ser Ala Gln Trp Ala Thr Ala Asp Ser Ser Val Ser Ser Cys
                325                   330                   335

Ser Gln Thr Asp Leu Ser Phe Asp Ser Gln Val Ser Leu Pro Ile Ser
```

5090

```
              340                    345                   350

Val His Thr Gln Thr Phe Leu Pro Ser Ser Lys Val Thr Ser Ser Ile
        355                 360                 365

Ala Ala Gln Thr Asp Ala Phe Met Asp Thr Cys Phe Gln Ser Gly Gly
        370                 375                 380

Val Ser Arg Glu Thr Gln Thr Ser Gly Ile Glu Ser Pro Thr Asp Asp
385                 390                 395                 400

His Val Gln Met Asp Gln Ala Gly Met Cys Gly Asp Ile Phe Glu Ser
                405                 410                 415

Val His Ser Ser Tyr Asn Val Ala Thr Gly Asn Ile Ile Ser Asn Ser
                420                 425                 430

Leu Val Ala Glu Thr Val Thr His Ser Leu Leu Pro Gln Asn Glu Pro
        435                 440                 445

Lys Thr Leu Asn Gln Asp Ile Glu Lys Ser Ala Pro Ile Ile Asn Phe
        450                 455                 460

Ser Ala Gln Asn Ser Met Leu Pro Ser Gln Asn Met Thr Asp Asn Gln
465                 470                 475                 480

Thr Gln Thr Ile Asp Leu Leu Ser Asp Leu Glu Asn Ile Leu Ser Ser
                485                 490                 495

Asn Leu Pro Ala Gln Thr Leu Asp His Arg Ser Leu Leu Ser Asp Thr
                500                 505                 510

Asn Pro Gly Pro Asp Thr Gln Leu Pro Ser Gly Pro Ala Gln Asn Pro
        515                 520                 525

Gly Ile Asp Phe Asp Ile Glu Glu Phe Phe Ser Ala Ser Asn Ile Gln
        530                 535                 540

Thr Gln Thr Glu Glu Ser Glu Leu Ser Thr Met Thr Thr Glu Pro Val
545                 550                 555                 560

Leu Glu Ser Leu Asp Ile Glu Thr Gln Thr Asp Phe Leu Leu Ala Asp
                565                 570                 575

Thr Ser Ala Gln Ser Tyr Gly Cys Arg Gly Asn Ser Asn Phe Leu Gly
                580                 585                 590

Leu Glu Met Phe Asp Thr Gln Thr Gln Thr Asp Leu Asn Phe Phe Leu
        595                 600                 605

Asp Ser Ser Pro His Leu Pro Leu Gly Ser Ile Leu Lys His Ser Ser
```

5091

```
        610                    615                    620

Phe Ser Val Ser Thr Asp Ser Ser Asp Thr Glu Thr Gln Thr Glu Gly
625                 630                 635                 640

Val Ser Thr Ala Lys Asn Ile Pro Ala Leu Glu Ser Lys Val Gln Leu
                645                 650                 655

Asn Ser Thr Glu Thr Gln Thr Met Ser Ser Gly Phe Glu Thr Leu Gly
                660                 665                 670

Ser Leu Phe Phe Thr Ser Asn Glu Thr Gln Thr Ala Met Asp Asp Phe
            675                 680                 685

Leu Leu Ala Asp Leu Ala Trp Asn Thr Met Glu Ser Gln Phe Ser Ser
        690                 695                 700

Val Glu Thr Gln Thr Ser Ala Glu Pro His Thr Val Ser Asn Phe
705                 710                 715
```

<210> 5802
<211> 56
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (3)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (6)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (36)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (50)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5802
```
Asn Ser Xaa Met Gln Xaa Pro Glu Trp His Phe Ala Thr Leu Ser His
  1               5                  10                  15
```

5092

Ala Leu Ile Ala Phe Gln Asn Glu Ser Tyr Leu Arg Gln Leu Leu Trp
            20   25   30

Val Lys Ser Xaa Leu Tyr Ser Arg Val Arg Leu Leu Gly Val Cys Leu
            35   40   45

Tyr Xaa Lys Arg Gly Gly Leu Ser
    50   55

<210> 5803
<211> 60
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (43)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5803
Ser Val Ala Cys Lys Glu Lys Lys Met Ala Ser Asp Ile Trp Tyr Lys
  1   5   10   15

Leu Leu Asn Arg Ile Ile Arg Ala Ser Phe Val Lys Pro Ala Phe Lys
            20   25   30

Cys Trp Thr Ala Ser Lys Ser Val Cys Phe Xaa Ser Ser Val Pro Tyr
            35   40   45

Thr Lys Lys Gln Leu Leu Pro Ser Tyr Tyr Ile Cys
    50   55   60

<210> 5804
<211> 55
<212> PRT
<213> Homo sapiens

<400> 5804
Phe Thr Gln Tyr Gly Ala Ala Cys Phe Cys Asp Phe Lys Ile Asp Gln
  1   5   10   15

Gly Thr Phe Ala Phe Glu Glu Arg Asn Phe Leu Gly Leu Val Thr Arg
            20   25   30

Ala Val Asp Val Pro Lys Ser Lys Asp Val Cys Cys Pro Trp Val Ser
            35   40   45

5093

His Cys Arg Phe Ile Thr Trp
         50   55

<210> 5805
<211> 367
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (358)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5805
Ala Arg Gln Thr Gly Leu Glu Asp Pro Leu Arg Leu Arg Arg Ala Glu
 1   5   10   15

Ser Thr Arg Arg Val Leu Gly Leu Glu Leu Asn Lys Asp Arg Asp Val
            20   25   30

Glu Arg Ile His Gly Gly Gly Ile Asn Thr Leu Asp Ile Glu Pro Val
            35   40   45

Glu Gly Arg Tyr Met Leu Ser Gly Gly Ser Asp Gly Val Ile Val Leu
    50   55   60

Tyr Asp Leu Glu Asn Ser Ser Arg Gln Ser Tyr Tyr Thr Cys Lys Ala
 65   70   75   80

Val Cys Ser Ile Gly Arg Asp His Pro Asp Val His Arg Tyr Ser Val
            85   90   95

Glu Thr Val Gln Trp Tyr Pro His Asp Thr Gly Met Phe Thr Ser Ser
            100   105   110

Ser Phe Asp Lys Thr Leu Lys Val Trp Asp Thr Asn Thr Leu Gln Thr
            115   120   125

Ala Asp Val Phe Asn Phe Glu Glu Thr Val Tyr Ser His His Met Ser
            130   135   140

Pro Val Ser Thr Lys His Cys Leu Val Ala Val Gly Thr Arg Gly Pro
145   150   155   160

Lys Val Gln Leu Cys Asp Leu Lys Ser Gly Ser Cys Ser His Ile Leu
            165   170   175

Gln Gly His Arg Gln Glu Ile Leu Ala Val Ser Trp Ser Pro Arg Tyr
            180   185   190

5094

```
Asp Tyr Ile Leu Ala Thr Ala Ser Ala Asp Ser Arg Val Lys Leu Trp
        195             200             205

Asp Val Arg Arg Ala Ser Gly Cys Leu Ile Thr Leu Asp Gln His Asn
        210             215             220

Gly Lys Lys Ser Gln Ala Val Glu Ser Ala Asn Thr Ala His Asn Gly
225             230             235             240

Lys Val Asn Gly Leu Cys Phe Thr Ser Asp Gly Leu His Leu Leu Thr
            245             250             255

Val Gly Thr Asp Asn Arg Met Arg Leu Trp Asn Ser Ser Asn Gly Glu
            260             265             270

Asn Thr Leu Val Asn Tyr Gly Lys Val Cys Asn Asn Ser Lys Lys Gly
            275             280             285

Leu Lys Phe Thr Val Ser Cys Gly Cys Ser Ser Glu Phe Val Phe Val
        290             295             300

Pro Tyr Gly Ser Thr Ile Ala Val Tyr Thr Val Tyr Ser Gly Glu Gln
305             310             315             320

Ile Thr Met Leu Lys Gly His Tyr Lys Thr Val Asp Cys Cys Val Phe
                325             330             335

Gln Ser Asn Phe Gln Val Leu Tyr Ser Gly Ser Arg Asp Cys Asn Ile
            340             345             350

Leu Ala Trp Val Pro Xaa Leu Tyr Glu Pro Val Pro Asp Asp Gly
        355             360             365
```

<210> 5806
<211> 72
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (3)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (28)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (51)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (68)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5806
Lys Lys Xaa Gly Leu Asn Arg Pro Pro Phe Gly Ala Gln Arg Arg Val
  1   5   10   15

Leu Thr Pro Arg Gly Gly Phe Pro Pro Gly Gly Xaa Lys Ile Phe Ser
             20   25   30

Pro Pro Pro Gly Gly Gly Phe Pro Gly Lys Pro Pro Pro Lys Thr Gly
             35   40   45

Ala Arg Xaa Phe Pro Pro Gly Gly Gly Pro Phe Pro Lys Phe Phe Phe
        50   55   60

Ala Gln Asn Xaa Ser Gln Lys Ile
65   70

<210> 5807
<211> 125
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (45)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5807
His Gly Val Arg Arg Arg Leu Arg Val Thr Arg Gln Arg Ala Thr Ala
  1   5   10   15

Leu Val Gln Ser Ala Arg Val Arg Arg Trp Lys Arg Ser Arg Arg Asn
             20   25   30

Pro Gln Ile Ala Pro Phe Pro Arg Asp Leu Ser Gly Xaa Arg Ala Thr
             35   40   45

Ala Gln Pro Arg Ala Pro Ala Leu Arg Pro Arg His Thr Pro Gln Ser
        50   55   60

5096

```
Ser Ser Ser Gly Ser Ala Pro Thr Pro Arg Arg Asp Gln Pro Ala Arg
 65              70              75              80

Gly Gly Leu Thr Ala Pro Ser Ser Gln Glu Gly Thr Gln Arg Thr Thr
                85              90              95

Glu Pro His Ser Ala Pro Arg Ser Pro Leu Trp Leu Leu Ala Ser Arg
            100             105             110

Pro Thr Arg Ala Ala Met Val Thr Ser Pro Pro Pro Leu
        115             120             125
```

```
<210> 5808
<211> 227
<212> PRT
<213> Homo sapiens

<400> 5808
Lys Met Asp Trp Gly Thr Leu Gln Thr Ile Leu Gly Gly Val Asn Lys
 1               5              10              15

His Ser Thr Ser Ile Gly Lys Ile Trp Leu Thr Val Leu Phe Ile Phe
                20              25              30

Arg Ile Met Ile Leu Val Val Ala Ala Lys Glu Val Trp Gly Asp Glu
            35              40              45

Gln Ala Asp Phe Val Cys Asn Thr Leu Gln Pro Gly Cys Lys Asn Val
        50              55              60

Cys Tyr Asp His Tyr Phe Pro Ile Ser His Ile Arg Leu Trp Ala Leu
 65              70              75              80

Gln Leu Ile Phe Val Ser Thr Pro Ala Leu Leu Val Ala Met His Val
                85              90              95

Ala Tyr Arg Arg His Glu Lys Lys Arg Lys Phe Ile Lys Gly Glu Ile
            100             105             110

Lys Ser Glu Phe Lys Asp Ile Glu Glu Ile Lys Thr Gln Lys Val Arg
            115             120             125

Ile Glu Gly Ser Leu Trp Trp Thr Tyr Thr Ser Ser Ile Phe Phe Arg
        130             135             140

Val Ile Phe Glu Ala Ala Phe Met Tyr Val Phe Tyr Val Met Tyr Asp
145             150             155             160

Gly Phe Ser Met Gln Arg Leu Val Lys Cys Asn Ala Trp Pro Cys Pro
```

5097

```
                    165                 170                 175

Asn Thr Val Asp Cys Phe Val Ser Arg Pro Thr Glu Lys Thr Val Phe
            180                 185                 190

Thr Val Phe Met Ile Ala Val Ser Gly Ile Cys Ile Leu Leu Asn Val
            195                 200                 205

Thr Glu Leu Cys Tyr Leu Leu Ile Arg Tyr Cys Ser Gly Lys Ser Lys
    210                 215                 220

Lys Pro Val
225
```

```
<210> 5809
<211> 213
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (65)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (72)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (75)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (80)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (86)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (166)
<223> Xaa equals any of the naturally occurring L-amino acids
```

5098

<400> 5809

Ala	Thr	Val	Pro	Ile	Arg	Pro	Asn	Phe	Thr	Gly	Lys	Ser	Ser	Tyr	Arg
1				5					10					15	

Val Tyr Lys Leu Pro Ile Ser Gly Glu Thr Phe Asn Arg Glu Lys Phe
              20   25   30

Arg Ser Gln Asp Trp Glu Asn Pro Thr Glu Arg Glu Asp Asp Ser Asp
          35   40   45

Lys Tyr Cys Lys Leu Asn Leu Gln Gln Ser Gly Ser Phe Gln Tyr Tyr
     50   55   60

Xaa Leu Gln Gly Asn Glu Lys Xaa Gly Gly Xaa Tyr Ile Val Val Xaa
65   70   75   80

Pro Ile Leu Arg Val Xaa Ala Asp Asn His Val Leu Pro Leu Asp Cys
              85   90   95

Val Thr Leu Gln Thr Phe Leu Ala Lys Cys Leu Gly Pro Phe Asp Glu
          100   105   110

Trp Glu Ser Arg Leu Arg Val Ala Lys Glu Ser Gly Tyr Asn Met Ile
          115   120   125

His Phe Thr Pro Leu Gln Thr Leu Gly Leu Ser Arg Ser Cys Tyr Ser
     130   135   140

Leu Ala Asn Gln Leu Glu Leu Asn Pro Asp Phe Ser Arg Pro Asn Arg
145   150   155   160

Lys Tyr Thr Trp Asn Xaa Val Gly Gln Leu Val Glu Lys Leu Lys Lys
              165   170   175

Glu Trp Ile Val Phe Cys Ile Thr Asp Val Val Tyr Asn His Thr Ala
          180   185   190

Ala Asn Ser Asn Cys Ile Gln Glu His Pro Glu Cys Ala Tyr Ile Leu
          195   200   205

Val Ile Ser Pro His
     210

<210> 5810
<211> 67
<212> PRT
<213> Homo sapiens

<220>

5099

```
<221> SITE
<222> (22)
<223> Xaa equals any of the naturally occurring L-amino acids


<220>
<221> SITE
<222> (38)
<223> Xaa equals any of the naturally occurring L-amino acids


<400> 5810
Gly Val His Tyr Cys Glu Phe Ile Ile Leu Lys Val Gly Asp Ala Lys
 1               5                  10                  15


Ser Thr Arg Leu Lys Xaa Tyr Glu Val Phe Ser Ser Phe Asn Ser Ile
                20                  25                  30


Leu Leu Glu Lys Asn Xaa His Asn Arg Gly Ser Phe Thr Phe Pro Gln
            35                  40                  45


Pro Ser Arg Leu Leu Tyr Cys Asn Val Gly Lys Ile Ala Tyr Asn Lys
         50                  55                  60


Asn Cys Ser
 65



<210> 5811
<211> 260
<212> PRT
<213> Homo sapiens


<220>
<221> SITE
<222> (165)
<223> Xaa equals any of the naturally occurring L-amino acids


<220>
<221> SITE
<222> (185)
<223> Xaa equals any of the naturally occurring L-amino acids


<220>
<221> SITE
<222> (195)
<223> Xaa equals any of the naturally occurring L-amino acids


<400> 5811
Val Arg Ala Gly Pro Ala Ala Ala Gly Pro Arg Pro Gly Ala Glu Arg
 1               5                  10                  15
```

5100

Lys Cys Trp Ser Leu Arg Ser Leu Arg Pro Leu Gly Gly Arg Cys Ala
            20   25   30

Trp Pro Gly Thr Ser Ala Pro Ala His Arg Pro Gly Ala Ala Glu Gly
        35   40   45

Arg Pro Arg Gly Pro Val Pro Ala Glu Pro Arg Pro Cys Pro Leu Ala
    50   55   60

Leu Leu Ser Gly His Tyr Leu Tyr Tyr His Tyr Gly Cys Asp Gly Leu
65   70   75   80

Asp Asp Arg Gly Trp Gly Cys Gly Tyr Arg Thr Leu Gln Thr Leu Cys
            85   90   95

Ser Trp Pro Glu Gly Gln Pro Ala Gly Val Pro Gly Leu Ala Ala Val
        100   105   110

Gln Ala Ala Leu Glu Asp Met Gly Asp Lys Pro Pro Gly Phe Arg Gly
        115   120   125

Ser Arg Asp Trp Ile Gly Cys Val Glu Ala Ser Leu Cys Leu Ala His
    130   135   140

Phe Gly Gly Pro Gln Gly Arg Leu Cys His Val Pro Arg Gly Val Gly
145   150   155   160

Leu His Gly Glu Xaa Glu Arg Leu Tyr Ser His Phe Ala Gly Gly Gly
            165   170   175

Gly Pro Val Met Val Gly Gly Asp Xaa Asp Ala Arg Ser Lys Ala Leu
        180   185   190

Leu Gly Xaa Cys Val Gly Ser Gly Thr Glu Ala Tyr Val Leu Val Leu
    195   200   205

Asp Pro His Tyr Trp Gly Thr Pro Lys Ser Pro Ser Glu Leu Gln Ala
    210   215   220

Ala Gly Trp Val Gly Trp Gln Glu Val Ser Ala Ala Phe Asp Pro Asn
225   230   235   240

Ser Phe Tyr Asn Leu Cys Leu Thr Ser Leu Ser Ser Gln Gln Gln Gln
            245   250   255

Arg Thr Leu Asp
        260

<210> 5812

5101

```
<211> 364
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (154)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (166)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (269)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (299)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (310)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (319)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (356)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (363)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5812
Trp Xaa Pro Arg Ala Ala Gly Ile Arg His Glu Leu Phe Gln Ala Leu
```

5102

1				5				10				15			

Ile Asp Ile Gln Glu Phe Tyr Glu Val Thr Leu Leu Asp Asn Pro Lys
             20   25   30

Cys Ile Asp Arg Ser Lys Pro Ser Glu Pro Ile Gln Pro Val Asn Thr
             35   40   45

Trp Glu Ile Ser Ser Leu Pro Ser Ser Thr Val Thr Ser Glu Thr Leu
     50   55   60

Pro Ser Ser Leu Ser Pro Ser Val Glu Lys Tyr Arg Tyr Gln Asp Glu
65   70   75   80

Asp Thr Pro Pro Gln Glu His Ile Ser Pro Gln Ile Thr Asn Glu Val
             85   90   95

Ile Gly Pro Glu Leu Val His Val Ser Glu Lys Asn Leu Ser Glu Ile
             100   105   110

Glu Asn Val His Gly Phe Val Ser His Ser His Ile Ser Pro Ile Lys
             115   120   125

Pro Thr Glu Ala Val Leu Pro Ser Pro Pro Thr Val Pro Val Ile Pro
     130   135   140

Val Leu Pro Val Pro Ala Glu Asn Thr Xaa Ile Leu Pro Thr Ile Pro
145   150   155   160

Gln Ala Asn Pro Pro Xaa Val Leu Val Asn Thr Asp Ser Leu Glu Thr
             165   170   175

Pro Thr Tyr Val Asn Gly Thr Asp Ala Asp Tyr Glu Tyr Glu Glu Ile
             180   185   190

Thr Leu Glu Arg Gly Asn Ser Gly Leu Gly Phe Ser Ile Ala Gly Gly
           195   200   205

Thr Asp Asn Pro His Ile Gly Asp Asp Ser Ser Ile Phe Ile Thr Lys
     210   215   220

Ile Ile Thr Gly Gly Ala Ala Ala Gln Asp Gly Arg Leu Arg Val Asn
225   230   235   240

Asp Cys Ile Leu Arg Val Asn Glu Val Asp Val Arg Asp Val Thr His
             245   250   255

Ser Lys Ala Val Glu Ala Leu Lys Glu Ala Gly Ser Xaa Val Arg Leu
             260   265   270

Tyr Val Lys Arg Arg Lys Pro Val Ser Glu Lys Ile Met Glu Ile Lys

5103

```
                 275                  280                  285
    Leu Ile Lys Gly Pro Lys Gly Leu Gly Phe Xaa Ile Ala Gly Gly Val
         290                  295                  300

    Gly Asn Gln His Ile Xaa Gly Asp Asn Ser Ile Tyr Val Thr Xaa Ile
    305                  310                  315                  320

    Ile Glu Gly Gly Ala Ala His Lys Asp Gly Lys Leu Gln Ile Gly Asp
                     325                  330                  335

    Lys Leu Leu Ala Val Asn Asn Val Cys Leu Glu Glu Val Thr His Glu
                     340                  345                  350

    Glu Ala Val Xaa Ala Leu Lys Ser Thr Ser Xaa Phe
                     355                  360
```

```
<210> 5813
<211> 277
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (45)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5813
    Gly Ser Cys Ser Ser Arg Cys Asp Ser Arg Asn Gln Arg His Leu Arg
     1               5                  10                  15

    Val Ser Arg Lys Pro Pro Phe Val Val Ser Arg Thr Glu Gly Tyr Ile
                     20                  25                  30

    Gly Val Leu Ile Asp Asp Leu Thr Thr Leu Gly Thr Xaa Glu Pro Tyr
                 35                  40                  45

    Arg Met Phe Thr Ser Arg Val Glu Phe Arg Leu Ser Leu Arg Pro Asp
             50                  55                  60

    Asn Ala Asp Ser Arg Leu Thr Leu Arg Gly Tyr Lys Asp Ala Gly Cys
    65                  70                  75                  80

    Val Ser Gln Gln Arg Tyr Glu Arg Ala Cys Trp Met Lys Ser Ser Leu
                     85                  90                  95

    Glu Glu Gly Ile Ser Val Leu Lys Ser Ile Glu Phe Leu Ser Ser Lys
                     100                 105                 110
```

5104

```
Trp Lys Lys Leu Ile Pro Glu Ala Ser Ile Ser Thr Ser Arg Ser Leu
        115             120             125

Pro Val Arg Ala Leu Asp Val Leu Lys Tyr Glu Glu Val Asp Met Asp
        130             135             140

Ser Leu Ala Lys Ala Val Pro Glu Pro Leu Lys Lys Tyr Thr Lys Cys
145             150             155             160

Arg Glu Leu Ala Glu Arg Leu Lys Ile Glu Ala Thr Tyr Glu Ser Val
            165             170             175

Leu Phe His Gln Leu Gln Glu Ile Lys Gly Val Gln Gln Asp Glu Ala
            180             185             190

Leu Gln Leu Pro Lys Asp Leu Asp Tyr Leu Thr Ile Arg Asp Val Ser
            195             200             205

Leu Ser His Glu Val Arg Glu Lys Leu His Phe Ser Arg Pro Gln Thr
        210             215             220

Ile Gly Ala Ala Ser Arg Ile Pro Gly Val Thr Pro Ala Ala Ile Ile
225             230             235             240

Asn Leu Leu Arg Phe Val Lys Thr Thr Gln Arg Arg Gln Ser Ala Met
            245             250             255

Asn Glu Ser Ser Lys Thr Asp Gln Tyr Leu Cys Asp Ala Asp Arg Leu
            260             265             270

Gln Glu Arg Glu Leu
        275
```

<210> 5814
<211> 36
<212> PRT
<213> Homo sapiens

<400> 5814
```
Ile Phe His Arg Val Leu Leu Cys Asp Leu Asn Phe Ser Leu Gly Pro
 1               5               10              15

Ala Ser Asp Ile Val Gly Gly Leu Ser Trp Phe Gln Glu Ile Arg Leu
            20              25              30

Ala Phe Ser Ser
        35
```

5105

<210> 5815
<211> 160
<212> PRT
<213> Homo sapiens

<400> 5815

Ala	Gly	Ser	Gln	Glu	Ser	Ala	Lys	Ala	Leu	Met	Ile	Arg	Glu	Lys	Tyr
1				5					10					15	

Ala	Gly	Ser	Pro	Thr	His	Leu	Pro	Ala	Asp	His	Ile	Pro	Val	Pro	Gly
			20					25				30			

Ser	Ser	Arg	Ala	Asp	Thr	Ala	Pro	Pro	Glu	Glu	Gly	Leu	Pro	Asp	Phe
		35				40					45				

His	Pro	Pro	Pro	Leu	Pro	Gln	Glu	Asp	Pro	Tyr	Cys	Leu	Asp	Asp	Ala
	50					55					60				

Pro	Pro	Asn	Leu	Asp	Tyr	Leu	Val	His	Met	Gln	Gly	Gly	Ile	Leu	Phe
65					70					75					80

Val	Tyr	Asp	Asn	Lys	Lys	Met	Leu	Glu	His	Gln	Glu	Pro	His	Ser	Leu
			85					90					95		

Pro	Tyr	Pro	Asp	Leu	Glu	Thr	Tyr	Thr	Val	Asp	Met	Ser	His	Ile	Leu
			100				105					110			

Ala	Leu	Ile	Thr	Asp	Gly	Pro	Thr	Lys	Thr	Tyr	Cys	His	Arg	Arg	Leu
		115				120					125				

Asn	Phe	Leu	Glu	Ser	Lys	Phe	Ser	Leu	His	Glu	Met	Leu	Asn	Glu	Met
	130				135					140					

Ser	Glu	Phe	Lys	Glu	Leu	Lys	Ser	Asn	Pro	His	Arg	Asp	Phe	Tyr	Asn
145					150				155					160	

<210> 5816
<211> 71
<212> PRT
<213> Homo sapiens

<400> 5816

Lys	Thr	Lys	Tyr	Leu	Leu	Trp	Asp	Lys	Ile	Leu	Tyr	Ala	Tyr	Leu	Glu
1				5					10					15	

5106

Tyr Trp Glu Asp Gly Lys Glu Tyr Lys Glu Lys Asn Asn Cys Thr Pro
            20   25   30

His Ser Arg His Asn Leu Leu Phe Thr Ser Leu Gly Cys Ile Ser Ile
        35   40   45

Pro Thr Arg Trp Asn His Leu Tyr Val Tyr Leu Ile Arg Ile Met Leu
    50   55   60

His Thr Val Leu Phe Pro Ser
65   70

<210> 5817
<211> 23
<212> PRT
<213> Homo sapiens

<400> 5817
Lys Lys Ala Trp Glu Pro Val Cys Phe Glu Arg Thr Asp Asp Ile Gly
 1   5   10   15

Arg Ala Leu Glu Val Pro Gly
            20

<210> 5818
<211> 155
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (5)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (7)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (12)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5818
```
Pro His Pro Thr Xaa Trp Xaa Gln Leu Glu Glu Xaa Cys Arg Arg Leu
 1               5               10              15

Ala Glu Val Ser Lys Pro Pro Lys Gln Arg Cys Cys Val Ala Ser Gln
             20              25              30

Gln Arg Asp Arg Asn His Ser Ala Thr Val Gln Thr Gly Ala Thr Xaa
         35              40              45

Phe Ser Asn Pro Ser Leu Ala Pro Glu Asp His Lys Glu Pro Lys Lys
         50              55              60

Leu Ala Gly Val His Ala Leu Gln Ala Ser Glu Leu Val Val Thr Tyr
 65              70              75              80

Phe Phe Cys Gly Glu Glu Ile Pro Tyr Arg Arg Met Leu Lys Ala Gln
             85              90              95

Ser Leu Thr Leu Gly His Phe Lys Glu Gln Leu Ser Lys Lys Gly Asn
         100             105             110

Tyr Arg Tyr Tyr Phe Lys Lys Ala Ser Asp Glu Phe Ala Cys Gly Ala
         115             120             125

Val Phe Glu Glu Ile Trp Glu Asp Glu Thr Val Leu Pro Met Tyr Glu
         130             135             140

Gly Arg Ile Leu Gly Lys Val Glu Arg Ile Asp
145             150             155
```

<210> 5819
<211> 317
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (20)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (113)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

5108

<221> SITE
<222> (116)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (245)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5819
Met Asn Lys Leu Asn Glu Leu Glu Lys Ile Cys Glu Ile Leu Gln Ala
 1   5   10   15

Glu Lys Tyr Xaa Leu Val Thr Glu Leu Asn Asp Ser Arg Ser Glu Cys
            20   25   30

Ile Thr Ala Thr Arg Lys Met Ala Glu Glu Val Gly Lys Leu Leu Asn
        35   40   45

Glu Val Lys Ile Leu Asn Asp Asp Ser Gly Leu Leu His Gly Glu Leu
    50   55   60

Val Glu Asp Ile Pro Gly Gly Glu Phe Gly Glu Gln Pro Asn Glu Gln
65   70   75   80

His Pro Val Ser Leu Ala Pro Leu Asp Glu Ser Asn Ser Tyr Glu His
            85   90   95

Leu Thr Leu Ser Asp Lys Glu Val Gln Met His Phe Ala Glu Leu Gln
            100   105   110

Xaa Lys Phe Xaa Ser Leu Gln Ser Glu His Lys Ile Leu His Asp Gln
        115   120   125

His Cys Gln Met Ser Ser Lys Met Ser Glu Leu Gln Thr Tyr Val Asp
    130   135   140

Ser Leu Lys Ala Glu Asn Leu Val Leu Ser Thr Asn Leu Arg Asn Phe
145   150   155   160

Gln Gly Asp Leu Val Lys Glu Met Gln Leu Gly Leu Glu Glu Gly Leu
            165   170   175

Val Pro Ser Leu Ser Ser Ser Cys Val Pro Asp Ser Ser Ser Leu Ser
            180   185   190

Ser Leu Gly Asp Ser Ser Phe Tyr Arg Ala Leu Leu Glu Gln Thr Gly
            195   200   205

Asp Met Ser Leu Leu Ser Asn Leu Glu Gly Ala Val Ser Ala Asn Gln
210   215   220

5109

```
Cys Ser Val Asp Glu Val Phe Cys Ser Ser Leu Gln Glu Glu Asn Leu
225                 230             235                 240

Thr Arg Lys Glu Xaa Pro Ser Ala Pro Ala Lys Gly Val Glu Glu Leu
                245             250                 255

Glu Ser Leu Cys Glu Val Tyr Arg Gln Ser Leu Glu Lys Leu Glu Glu
            260             265             270

Lys Met Glu Ser Gln Gly Ile Met Lys Asn Lys Glu Ile Gln Glu Leu
        275             280             285

Glu Gln Leu Leu Ser Ser Glu Gly Lys Ser Leu Thr Ala Leu Gly Ala
    290             295             300

Val Phe Val Arg His Asp Ser Gly Thr Glu Leu Thr Ala
305             310             315
```

```
<210> 5820
<211> 55
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (13)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (52)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5820
Pro Asn Trp Glu Lys Lys Cys Ile Arg Leu Ala Leu Xaa Thr Arg Glu
  1               5               10                  15

Gln His Ile Arg Arg Asp Lys Ala Thr Ser Asn Ile Cys Thr Ala Gln
                20              25                  30

Ala Leu Leu Ala Asn Met Ala Ala Met Phe Ala Ile Tyr His Gly Ser
            35              40                  45

His Gly Leu Xaa His Ile Ala
        50              55
```

5110

```
<210> 5821
<211> 70
<212> PRT
<213> Homo sapiens

<400> 5821
Asn Gln Asn Lys Gly Gln Tyr Arg Lys Tyr His Gly Val Tyr Asn Lys
1               5                   10                  15

Leu Asn Phe Trp Leu Pro Ile Gln Thr Gly Leu Asn Gly Met Phe Ile
            20                  25                  30

Leu Asn Lys Glu Phe Ala Met Asp Lys Ile Tyr Leu Ala Tyr Cys Glu
            35                  40                  45

Leu Glu Val Arg Pro Ala Val Thr Leu Val Phe Pro His Ser Met Glu
        50                  55                  60

Glu Glu Glu Arg Lys Thr
65                  70
```

```
<210> 5822
<211> 465
<212> PRT
<213> Homo sapiens

<400> 5822
Ala Gly Glu Lys Leu Leu Lys Asp Cys Val Leu Leu His Leu Pro Cys
1               5                   10                  15

Ala Arg Ser Pro Pro Val Ser His Ser Val Thr Met Val Gln Trp Lys
            20                  25                  30

Arg Leu Cys Gln Leu His Tyr Leu Trp Ala Leu Gly Cys Tyr Met Leu
            35                  40                  45

Leu Ala Thr Val Ala Leu Lys Leu Ser Phe Arg Leu Lys Cys Asp Ser
        50                  55                  60

Asp His Leu Gly Leu Glu Ser Arg Glu Ser Gln Ser Gln Tyr Cys Arg
65                  70                  75                  80

Asn Ile Leu Tyr Asn Phe Leu Lys Leu Pro Ala Lys Arg Ser Ile Asn
                85                  90                  95

Cys Ser Gly Val Thr Arg Gly Asp Gln Glu Ala Val Leu Gln Ala Ile
                100                 105                 110

Leu Asn Asn Leu Glu Val Lys Lys Lys Arg Glu Pro Phe Thr Asp Thr
```

5111

```
                  115                     120                     125

His Tyr Leu Ser Leu Thr Arg Asp Cys Glu His Phe Lys Ala Glu Arg
    130                     135                     140

Lys Phe Ile Gln Phe Pro Leu Ser Lys Glu Glu Val Glu Phe Pro Ile
145                     150                     155                     160

Ala Tyr Ser Met Val Ile His Glu Lys Ile Glu Asn Phe Glu Arg Leu
                165                     170                     175

Leu Arg Ala Val Tyr Ala Pro Gln Asn Ile Tyr Cys Val His Val Asp
                180                     185                     190

Glu Lys Ser Pro Glu Thr Phe Lys Glu Ala Val Lys Ala Ile Ile Ser
                195                     200                     205

Cys Phe Pro Asn Val Phe Ile Ala Ser Lys Leu Val Arg Val Val Tyr
    210                     215                     220

Ala Ser Trp Ser Arg Val Gln Ala Asp Leu Asn Cys Met Glu Asp Leu
225                     230                     235                     240

Leu Gln Ser Ser Val Pro Trp Lys Tyr Phe Leu Asn Thr Cys Gly Thr
                245                     250                     255

Asp Phe Pro Ile Lys Ser Asn Ala Glu Met Val Gln Ala Leu Lys Met
                260                     265                     270

Leu Asn Gly Arg Asn Ser Met Glu Ser Glu Val Pro Pro Lys His Lys
                275                     280                     285

Glu Thr Arg Trp Lys Tyr His Phe Glu Val Val Arg Asp Thr Leu His
    290                     295                     300

Leu Thr Asn Lys Lys Lys Asp Pro Pro Pro Tyr Asn Leu Thr Met Phe
305                     310                     315                     320

Thr Gly Asn Ala Tyr Ile Val Ala Ser Arg Asp Phe Val Gln His Val
                325                     330                     335

Leu Lys Asn Pro Lys Ser Gln Gln Leu Ile Glu Trp Val Lys Asp Thr
                340                     345                     350

Tyr Ser Pro Asp Glu His Leu Trp Ala Thr Leu Gln Arg Ala Arg Trp
                355                     360                     365

Met Pro Gly Ser Val Pro Asn His Pro Lys Tyr Asp Ile Ser Asp Met
370                     375                     380

Thr Ser Ile Ala Arg Leu Val Lys Trp Gln Gly His Glu Gly Asp Ile
```

5112

```
385                    390                    395                    400

Asp Lys Gly Ala Pro Tyr Ala Pro Cys Ser Gly Ile His Gln Arg Ala
            405                     410             415

Ile Cys Val Tyr Gly Ala Gly Asp Leu Asn Trp Met Leu Gln Asn His
            420                     425             430

His Leu Leu Ala Asn Lys Phe Asp Pro Lys Val Asp Asp Asn Ala Leu
        435                 440                 445

Gln Cys Leu Glu Glu Tyr Leu Arg Tyr Lys Ala Ile Tyr Gly Thr Glu
    450                 455                 460

Leu
465
```

```
<210> 5823
<211> 65
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (24)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5823
His Gln Pro His Gly Ser Pro Glu Leu Cys Trp Lys Val Glu Thr Gly
  1             5                  10                  15

Arg Glu Ala Ser His Gly Ser Xaa Glu Pro Asp Pro Thr Asn Gln Leu
            20                  25                  30

Ile Phe Lys Arg Gln Asp Gly Gly Arg Asp His Ser Arg Glu Pro Cys
        35                  40                  45

Ser Leu Phe Leu Pro Val Ala Lys Ser Gly Ala Arg Lys Ser Leu Ser
    50                  55                  60

Val
 65
```

```
<210> 5824
<211> 101
<212> PRT
<213> Homo sapiens
```

5113

<400> 5824
```
Asp Leu Gly Leu Glu Gly Trp Gly Met Gly Arg Glu Gly His Ser Leu
 1               5                   10                  15

Leu Leu His Glu Ser Asp Ile Ser Glu Thr Glu Gln Leu Pro Asp Ala
            20                  25                  30

Trp Val Arg Asn Pro Arg Pro His Leu Leu Arg Thr Gly Ser Ser Glu
        35                  40                  45

Ser Thr Leu Arg Glu Lys Gly Glu Asn Ile Thr Ser Val Asp Ser Pro
    50                  55                  60

Ala Thr Thr Ala Leu Glu Glu Lys Ala Ala Ala Thr Ser Gln Arg Gly
65                  70                  75                  80

Val Lys Asp Pro Cys Pro Arg Asn Arg Ala Ala Pro Pro Ala Leu Thr
                85                  90                  95

Pro Leu Thr Phe Ser
            100
```

<210> 5825
<211> 62
<212> PRT
<213> Homo sapiens

<400> 5825
```
His Val Ser Phe Ala Leu Leu Val Phe Tyr Val Ile Ser Phe Asn Cys
 1               5                   10                  15

Leu Leu His Leu Thr Val Tyr Ile Ile Gln Gln Phe Thr Ser Leu Asn
            20                  25                  30

Ser Arg Trp Lys Asn Arg Cys Gln Ser Met Lys Ile Phe Pro Ser Ile
        35                  40                  45

Ser Lys Tyr Phe Ser Arg Ile Tyr Phe Ser Lys Gln Thr Ile
    50                  55                  60
```

<210> 5826
<211> 152
<212> PRT
<213> Homo sapiens

<220>

5114

<221> SITE
<222> (131)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5826
Val Leu Glu Leu Asp Gln Glu Glu Leu Gln Leu Gly Arg Gly Gly Ala
1   5   10   15

Pro Arg Arg Ala Arg Ala Ala Arg Arg Gly Val Leu Leu Leu Ala His
            20   25   30

Arg Glu Pro Pro Pro Ala Arg Ala Glu Ala Pro Ser Arg Gln Ala Ala
        35   40   45

Cys Leu Pro Pro Leu Ser Ile Ser Pro Glu Ser Gln Pro Gly Ala Pro
        50   55   60

Gly Pro Leu Pro Leu Ser Gly Trp Arg Ser Ser Arg Pro Leu Pro Val
65   70   75   80

Ser Leu Leu Leu Ser Leu Gly Ser Gln Pro Pro Leu Ser Phe Ser Trp
                85   90   95

Thr Gly Ser His Pro Leu Arg Ser Pro Ser Phe Ser Ser Gly Ser Leu
            100   105   110

Pro Leu Pro Leu Ala His Lys Pro Arg Ser Pro Lys Leu Leu Ser His
        115   120   125

Phe Pro Xaa Pro Lys Val Pro Ala Phe Leu Leu Pro Phe Leu Cys Thr
        130   135   140

Ile Pro Ile Leu Pro Phe Leu Tyr
145   150

<210> 5827
<211> 86
<212> PRT
<213> Homo sapiens

<400> 5827
Pro Ile Glu Ile Glu Arg Cys Glu Pro Val Arg Ser Lys Leu Glu Glu
1   5   10   15

Val Gln Arg Lys Leu Gly Phe Ala Leu Ser Asp Ile Ser Val Val Ser
            20   25   30

Asn Tyr Ser Ser Glu Trp Glu Leu Asp Pro Val Lys Asp Val Leu Ile
            35   40   45

5115

```
Leu Ser Ala Leu Arg Arg Met Leu Trp Ala Ala Asp Asp Phe Leu Glu
     50              55              60
```

```
Asp Leu Pro Phe Glu Gln Ile Gly Asn Leu Arg Glu Glu Ile Ile Asn
65              70              75              80
```

```
Cys Ala Gln Gly Lys Lys
                85
```


<210> 5828
<211> 154
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (59)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5828
```
Ala Thr Val His Pro Ala Cys Gln Ile Phe Pro His Tyr Thr Pro Ser
 1               5              10              15
```

```
Val Ala Tyr Pro Trp Ser Pro Glu Ala His Pro Leu Ile Cys Gly Pro
            20              25              30
```

```
Pro Gly Leu Asp Lys Arg Leu Leu Pro Glu Thr Pro Gly Pro Cys Tyr
        35              40              45
```

```
Ser Asn Ser Gln Pro Val Trp Leu Cys Leu Xaa Pro Arg Gln Pro Leu
    50              55              60
```

```
Glu Pro His Pro Pro Gly Glu Gly Pro Ser Glu Trp Ser Ser Asp Thr
65              70              75              80
```

```
Ala Glu Gly Arg Pro Cys Pro Tyr Pro His Cys Gln Val Cys Arg Pro
            85              90              95
```

```
Ser Leu Ala Gln Arg Arg Asn Ser Arg Ser Cys Val Asn Arg Leu Cys
            100             105             110
```

```
Glu Met Phe Arg Pro Ser Ser Asn Gln Glu Cys Ala Pro Asp Val Phe
        115             120             125
```

```
Gly Pro Tyr Leu Ala Gln Ser Pro Ala Pro Gly Lys Gly Lys Asp His
    130             135             140
```

```
Ser Lys His His Ser Phe Cys Arg Thr Ser
```

5116

145   150

<210> 5829
<211> 53
<212> PRT
<213> Homo sapiens

<400> 5829
Ile Phe Phe Leu Ile Ala Leu Leu Val Lys Ser Glu Lys Lys Asn Gln
  1   5   10   15

Arg Arg Phe Glu Thr Gly Ala Leu Cys Ala Arg Met Thr Lys Cys Thr
              20   25   30

Ser Phe Arg Val Cys Met Leu Val Asn Ser Gln Ile Tyr Leu Tyr Phe
          35   40   45

Phe Ala Ser Ile Glu
      50

<210> 5830
<211> 75
<212> PRT
<213> Homo sapiens

<400> 5830
Lys Asn Phe Glu Ser Thr Tyr Asn Leu Glu Pro Pro Arg Ser Thr Phe
  1   5   10   15

Glu Leu Ser Tyr Leu Ser Gly Gln Lys Gln Cys Gly Ser Cys Met Tyr
              20   25   30

Leu Ile Asp Val Ser Cys Leu Pro Lys Met Tyr Thr Ile Arg Leu Cys
          35   40   45

Pro Asp His Pro Gly His Met Phe Ser Gly Pro Pro Glu Val Ser Val
      50   55   60

Ser Gly His Trp Ser Leu Arg Phe Gly Ser Glu
65   70   75

<210> 5831
<211> 356
<212> PRT
<213> Homo sapiens

5117

<220>
<221> SITE
<222> (25)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5831

```
Ala Leu Leu Ser Trp Glu Met Ser Ala Ala Cys Trp Glu Glu Pro Trp
 1               5                  10                  15

Gly Leu Pro Gly Gly Phe Ala Lys Xaa Val Leu Val Thr Gly Gly Ala
            20                  25                  30

Gly Phe Ile Ala Ser His Met Ile Val Ser Leu Val Glu Asp Tyr Pro
        35                  40                  45

Asn Tyr Met Ile Ile Asn Leu Asp Lys Leu Asp Tyr Cys Ala Ser Leu
    50                  55                  60

Lys Asn Leu Glu Thr Ile Ser Asn Lys Gln Asn Tyr Lys Phe Ile Gln
65                  70                  75                  80

Gly Asp Ile Cys Asp Ser His Phe Val Lys Leu Leu Phe Glu Thr Glu
            85                  90                  95

Lys Ile Asp Ile Val Leu His Phe Ala Ala Gln Thr His Val Asp Leu
            100                 105                 110

Ser Phe Val Arg Ala Phe Glu Phe Thr Tyr Val Asn Val Tyr Gly Thr
        115                 120                 125

His Val Leu Val Ser Ala Ala His Glu Ala Arg Val Glu Lys Phe Ile
    130             135                 140

Tyr Val Ser Thr Asp Glu Val Tyr Gly Gly Ser Leu Asp Lys Glu Phe
145                 150                 155                 160

Asp Glu Ser Ser Pro Lys Gln Pro Thr Asn Pro Tyr Ala Ser Ser Lys
                165                 170                 175

Ala Ala Ala Glu Cys Phe Val Gln Ser Tyr Trp Glu Gln Tyr Lys Phe
            180                 185                 190

Pro Val Val Ile Thr Arg Ser Ser Asn Val Tyr Gly Pro His Gln Tyr
        195                 200                 205

Pro Glu Lys Val Ile Pro Lys Phe Ile Ser Leu Leu Gln His Asn Arg
    210                 215                 220

Lys Cys Cys Ile His Gly Ser Gly Leu Gln Thr Arg Asn Phe Leu Tyr
225             230                 235                 240
```

5118

```
Ala Thr Asp Val Val Glu Ala Phe Leu Thr Val Leu Lys Lys Gly Lys
            245         250         255

Pro Gly Glu Ile Tyr Asn Ile Gly Thr Asn Phe Glu Met Ser Val Val
            260         265         270

Gln Leu Ala Lys Glu Leu Ile Gln Leu Ile Lys Glu Thr Asn Ser Glu
            275         280         285

Ser Glu Met Glu Asn Trp Val Asp Tyr Val Asn Asp Arg Pro Thr Asn
    290         295         300

Asp Met Arg Tyr Pro Met Lys Ser Glu Lys Ile His Gly Leu Gly Trp
305         310         315         320

Arg Pro Lys Val Pro Trp Lys Glu Gly Ile Lys Lys Thr Ile Glu Trp
            325         330         335

Tyr Arg Glu Asn Phe His Asn Trp Lys Asn Val Glu Lys Ala Leu Glu
            340         345         350

Pro Phe Pro Val
            355
```

```
<210> 5832
<211> 52
<212> PRT
<213> Homo sapiens

<400> 5832
Ala Lys Thr Ser His Leu Glu Phe Gly Lys Ile Arg Ile Ser Gln Val
  1           5           10          15

Glu His Leu Leu Asn Ala Arg Ile Val Ser Met His Phe Lys Ser Ile
            20          25          30

Phe Asn Leu Tyr Tyr Ser Leu Ile Ile Gly Ile Met Thr Pro Glu Gln
            35          40          45

Arg Gln Leu Ser
    50
```

```
<210> 5833
<211> 55
<212> PRT
<213> Homo sapiens
```

```
<400> 5833
Thr Arg Met Pro Ser Lys Ala Ala Leu Met Glu Glu Ala Lys Leu Met
 1               5                   10                  15

Ala Ser Leu Trp His Leu Ala Ala Met Ala Phe Ile Thr Tyr Val Leu
                20                  25                  30

Leu Ala Gly Met Ala Leu Gly Ile Gln Lys Arg Ser Val Pro Ser Pro
            35                  40                  45

Ser Leu Thr Leu Pro Ser Leu
        50                  55
```

```
<210> 5834
<211> 231
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (3)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (5)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (17)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (20)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (21)
<223> Xaa equals any of the naturally occurring L-amino acids
```

5120

```
<220>
<221> SITE
<222> (90)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (140)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (152)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (159)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (189)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (195)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (198)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (202)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (203)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (217)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
```

5121

<221> SITE
<222> (219)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5834
Xaa Cys Xaa Ala Xaa Ala Pro Ser Val Pro Ala Trp Gln Val Leu His
1   5   10   15

Xaa His Asn Xaa Xaa Arg Leu Val Glu Phe Ser Ala Phe Leu Glu Gln
                20   25   30

Gln Arg Asp Pro Asp Ser Tyr Asn Lys His Leu Phe Val His Ile Gly
        35   40   45

His Ala Asn His Ser Tyr Ser Asp Pro Leu Leu Glu Ser Val Asp Ile
    50   55   60

Arg Gln Ile Tyr Asp Lys Phe Pro Glu Lys Lys Gly Gly Leu Lys Glu
65   70   75   80

Leu Phe Gly Lys Gly Pro Gln Asn Ala Xaa Phe Leu Val Lys Phe Trp
            85   90   95

Ala Asp Leu Asn Cys Asn Ile Gln Asp Asp Ala Gly Ala Phe Tyr Gly
            100   105   110

Val Thr Ser Gln Tyr Glu Ser Ser Glu Asn Met Thr Val Thr Cys Ser
        115   120   125

Thr Lys Val Cys Ser Phe Gly Lys Gln Val Val Xaa Lys Val Glu Thr
    130   135   140

Glu Tyr Ala Arg Phe Glu Asn Xaa Arg Phe Val Tyr Arg Ile Xaa Arg
145   150   155   160

Ser Pro Met Cys Glu Tyr Met Ile Asn Phe Ile His Lys Leu Lys His
            165   170   175

Leu Pro Glu Lys Tyr Met Met Asn Ser Val Leu Glu Xaa Phe Thr Ile
            180   185   190

Leu Leu Xaa Val Thr Xaa Arg Asp Thr Xaa Xaa Thr Leu Leu Cys Met
        195   200   205

Ala Cys Val Phe Glu Val Ser Asn Xaa Glu Xaa Gly Ala Gln His His
    210   215   220

Ile Tyr Arg Leu Val Lys Asp
225   230

5122

```
<210> 5835
<211> 57
<212> PRT
<213> Homo sapiens

<400> 5835
Ala Asp Leu Arg Glu Gln Arg Gly Leu Arg Gln Ala Thr Asp His Gln
1               5                   10                  15

Glu Leu Val Glu Ile Pro Thr Arg Pro Leu Leu Thr Lys Leu Ser Leu
            20                  25                  30

Ile Thr Ala Pro Arg Arg Gly Glu Arg Ala Pro Val Pro Leu Arg Ala
        35              40                  45

Gly Gly His Ser Thr Gly Asp Thr Ala
    50                  55


<210> 5836
<211> 56
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (21)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5836
Ile Ala His Tyr Phe Leu Tyr Arg Tyr Leu Lys Lys Thr Val Tyr Gly
1               5                   10                  15

Leu His Phe Phe Xaa Cys His Ile Gly Leu Met Leu Leu Ser Asn Gly
            20                  25                  30

Gly Ala Arg Ser His His Ser Leu Ser Pro Gln Ile Asp Phe Val Pro
        35              40                  45

Pro Ser Asn Lys Leu Ser Lys Ser
    50                  55


<210> 5837
<211> 555
<212> PRT
<213> Homo sapiens
```

5123

```
<400> 5837
Gln Tyr Arg Ser Glu Phe Pro Gly Arg Pro Thr Arg Pro Ala Val Thr
1               5               10              15

Ala Thr Ala Ala Ser Asp Arg Met Glu Ser Asp Ser Asp Ser Asp Lys
            20              25              30

Ser Ser Asp Asn Ser Gly Leu Lys Arg Lys Thr Pro Ala Leu Lys Met
            35              40              45

Ser Val Ser Lys Arg Ala Arg Lys Ala Ser Ser Asp Leu Asp Gln Ala
        50              55              60

Ser Val Ser Pro Ser Glu Glu Glu Asn Ser Glu Ser Ser Ser Glu Ser
65              70              75              80

Glu Lys Thr Ser Asp Gln Asp Phe Thr Pro Glu Lys Lys Ala Ala Val
                85              90              95

Arg Ala Pro Arg Arg Gly Pro Leu Gly Gly Arg Lys Lys Lys Lys Ala
            100             105             110

Pro Ser Ala Ser Asp Ser Asp Ser Lys Ala Asp Ser Asp Gly Ala Lys
            115             120             125

Pro Glu Pro Val Ala Met Ala Arg Ser Ala Ser Ser Ser Ser Ser Ser
    130             135             140

Ser Ser Ser Ser Asp Ser Asp Val Ser Val Lys Lys Pro Pro Arg Gly
145             150             155             160

Arg Lys Pro Ala Glu Lys Pro Leu Pro Lys Pro Arg Gly Arg Lys Pro
            165             170             175

Lys Pro Glu Arg Pro Pro Ser Ser Ser Ser Ser Asp Ser Asp Ser Asp
            180             185             190

Glu Val Asp Arg Ile Ser Glu Trp Lys Arg Arg Asp Glu Ala Arg Arg
    195             200             205

Arg Glu Leu Glu Ala Arg Arg Arg Glu Gln Glu Glu Leu Arg
    210             215             220

Arg Leu Arg Glu Gln Glu Lys Glu Glu Lys Glu Arg Arg Arg Glu Arg
225             230             235             240

Ala Asp Arg Gly Glu Ala Glu Arg Gly Ser Gly Gly Ser Ser Gly Asp
            245             250             255

Glu Leu Arg Glu Asp Asp Glu Pro Val Lys Lys Arg Gly Arg Lys Gly
            260             265             270
```

5124

```
Arg Gly Arg Gly Pro Pro Ser Ser Ser Asp Ser Glu Pro Glu Ala Glu
        275             280             285

Leu Glu Arg Glu Ala Lys Lys Ser Ala Lys Lys Pro Gln Ser Ser Ser
    290             295             300

Thr Glu Pro Ala Arg Lys Pro Gly Gln Lys Glu Lys Arg Val Arg Pro
305             310             315             320

Glu Glu Lys Gln Gln Ala Lys Pro Val Lys Val Glu Arg Thr Arg Lys
            325             330             335

Arg Ser Glu Gly Phe Ser Met Asp Arg Lys Val Glu Lys Lys Lys Glu
            340             345             350

Pro Ser Val Glu Glu Lys Leu Gln Lys Leu His Ser Glu Ile Lys Phe
            355             360             365

Ala Leu Lys Val Asp Ser Pro Asp Val Lys Arg Cys Leu Asn Ala Leu
    370             375             380

Glu Glu Leu Gly Thr Leu Gln Val Thr Ser Gln Ile Leu Gln Lys Asn
385             390             395             400

Thr Asp Val Val Ala Thr Leu Lys Lys Ile Arg Arg Tyr Lys Ala Asn
            405             410             415

Lys Asp Val Met Glu Lys Ala Ala Glu Val Tyr Thr Arg Leu Lys Ser
            420             425             430

Arg Val Leu Gly Pro Lys Ile Glu Ala Val Gln Lys Val Asn Lys Ala
            435             440             445

Gly Met Glu Lys Glu Lys Ala Glu Glu Lys Leu Ala Gly Glu Glu Leu
    450             455             460

Ala Gly Glu Glu Ala Pro Gln Glu Lys Ala Glu Asp Lys Pro Ser Thr
465             470             475             480

Asp Leu Ser Ala Pro Val Asn Gly Glu Ala Thr Ser Gln Lys Gly Glu
            485             490             495

Ser Ala Glu Asp Lys Glu His Glu Glu Gly Arg Asp Ser Glu Glu Gly
            500             505             510

Pro Arg Cys Gly Ser Ser Glu Asp Leu His Asp Ser Val Arg Glu Gly
            515             520             525

Pro Asp Leu Asp Arg Pro Gly Ser Asp Arg Gln Glu Arg Glu Arg Ala
    530             535             540
```

5125

```
Arg Gly Asp Ser Glu Ala Leu Asp Glu Glu Ser
545             550             555



<210> 5838
<211> 227
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (26)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (208)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5838
Gln His Pro Gln Pro Ala Asp Ser Arg Gln Thr Gly Ser Ser Lys Ala
  1             5                 10              15

Leu Ala Gln Thr Leu Pro Pro Thr Xaa Ala Gly Glu Ser Asn Ser
            20              25              30

Val Thr Cys Asn Cys Gly Gln Glu Ala Val Leu Leu Thr Val Arg Lys
          35              40              45

Glu Gly Pro Asn Arg Gly Arg Gln Phe Phe Lys Cys Asn Gly Gly Ser
    50              55              60

Cys Asn Phe Phe Leu Trp Ala Asp Ser Pro Asn Pro Gly Ala Gly Gly
 65             70              75              80

Pro Pro Ala Leu Ala Tyr Arg Pro Leu Gly Ala Ser Leu Gly Cys Pro
            85              90              95

Pro Gly Pro Gly Ile His Leu Gly Gly Phe Gly Asn Pro Gly Asp Gly
            100             105             110

Ser Gly Ser Gly Thr Ser Cys Leu Cys Ser Gln Pro Ser Val Thr Arg
            115             120             125

Thr Val Gln Lys Asp Gly Pro Asn Lys Gly Arg Gln Phe His Thr Cys
            130             135             140

Ala Lys Pro Arg Glu Gln Gln Cys Gly Phe Phe Gln Trp Val Asp Glu
145             150             155             160
```

5126

```
Asn Thr Ala Pro Gly Thr Ser Gly Ala Pro Ser Trp Thr Gly Asp Arg
            165             170             175

Gly Arg Thr Leu Glu Ser Glu Ala Arg Ser Lys Arg Pro Arg Ala Gly
            180             185             190

Ser Ser Asp Met Gly Ser Thr Ala Lys Lys Pro Arg Lys Cys Ser Xaa
            195             200             205

Cys His Gln Pro Gly Thr His Pro Ser Leu Leu Ser Ser Glu Gln Met
    210             215             220

Ser Ser Gly
225
```

```
<210> 5839
<211> 254
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (172)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5839
Gly Arg Ser Arg Val Ser Ser Arg Lys Arg His Pro Ala Gly Pro Pro
    1           5               10              15

Gly Glu Ala Gln Glu Gly Ser Ala Lys Ala Glu Arg Pro Gly Leu Gln
            20              25              30

Asn Met Glu Leu Ala Pro Val Gln Arg Lys Ile Glu Ala Arg Ser Ala
            35              40              45

Glu Asp Ser Phe Thr Gly Phe Val Arg Thr Leu Tyr Phe Ala Asp Thr
    50              55              60

Tyr Leu Lys Asp Ser Ser Arg His Cys Pro Ser Leu Trp Ala Gly Thr
65              70              75              80

Asn Gly Gly Thr Ile Tyr Ala Phe Ser Leu Arg Val Pro Pro Ala Glu
            85              90              95

Arg Arg Met Asp Glu Pro Val Arg Ala Glu Gln Ala Lys Glu Ile Gln
            100             105             110

Leu Met His Arg Ala Pro Val Val Gly Ile Leu Val Leu Asp Gly His
```

5127

```
              115                   120                    125

Ser Val Pro Leu Pro Glu Pro Leu Glu Val Ala His Asp Leu Ser Lys
    130                 135              140

Ser Pro Asp Met Gln Gly Ser His Gln Leu Leu Val Val Ser Glu Glu
145                 150              155                 160

Gln Phe Lys Val Phe Thr Leu Pro Lys Val Ser Xaa Lys Leu Lys Leu
                165              170                 175

Lys Leu Thr Ala Leu Glu Gly Ser Arg Val Arg Arg Val Ser Val Ala
            180              185                 190

His Phe Gly Ser Arg Arg Ala Glu Asp Tyr Gly Glu His His Leu Ala
        195                 200                 205

Val Leu Thr Asn Leu Gly Asp Ile Gln Val Val Ser Leu Pro Leu Leu
    210                 215                 220

Lys Pro Gln Val Arg Tyr Ser Cys Ile Arg Arg Glu Asp Val Met Ala
225                 230                 235                 240

Ser Pro Pro Ala Ser Ser Pro Asn Met Ala Lys Ala Ser Thr
                245                 250
```

<210> 5840
<211> 88
<212> PRT
<213> Homo sapiens

<400> 5840
```
Gln Pro Ile His Thr Arg Pro Gly Leu Phe Ile Tyr Thr Ala Ala His
  1               5                  10                  15

Ser Ser Leu Gln Leu His Met Leu Tyr Leu Asp His Ser Glu Ala Asn
            20                  25                  30

Ser Glu His Tyr Ile Ile Leu Ser Ile Asn Ile Ser Asn Ile Leu Lys
            35                  40                  45

Tyr Thr Ile Gly Ile Gln Ala Ser Pro Ile Val Pro Gln Met Phe Gly
        50                  55                  60

Cys Phe Cys Ser Trp Ile Val Cys Ile Arg Ile Gln Ala Arg Pro Ile
65                  70                  75                  80

Tyr Cys Ile Tyr Leu Lys Cys Leu
                85
```

5128

```
<210> 5841
<211> 98
<212> PRT
<213> Homo sapiens

<400> 5841
Ser Phe Thr Gly Gln Ser Arg Thr Lys Ile Val Tyr Ser Met Tyr Ser
 1               5                  10                  15

Arg Lys Ala Ala Glu Glu Val Lys Arg Glu Leu Ile Lys Leu Lys Val
                20                  25                  30

Asn Tyr Tyr Ile Leu Glu Glu Ser Trp Cys Val Arg Arg Ser Lys Pro
            35                  40                  45

Gly Cys Ser Met Pro Glu Ile Trp Asp Val Glu Asp Pro Ala Asn Ala
        50                  55                  60

Gly Lys Thr Pro Leu Cys Asn Leu Leu Val Lys Asp Ser Lys Pro His
65                  70                  75                  80

Phe Thr Thr Val Phe Gln Asn Ser Val Tyr Lys Val Leu Glu Val Val
                85                  90                  95

Lys Glu
```

```
<210> 5842
<211> 96
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (7)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5842
Arg Ala Glu Phe Gly Thr Xaa Ser Leu Gln Ala Pro Ser Arg Glu Glu
 1               5                  10                  15

Ala Ala Lys Trp Ser Gln Val Arg Lys Asp Leu Cys Ser Leu Lys Val
                20                  25                  30

Ser Leu Gln Leu Arg Gly Glu Asp Gly Ser Val Trp Asn Tyr Lys Pro
            35                  40                  45
```

5129

```
Pro Ala Asp Ser Gly Gly Lys Glu Ile Phe Ser Leu Leu Pro His Met
    50                  55                  60

Ala Asp Met Ser Thr Tyr Met Phe Lys Gly Ile Ile Ser Phe Ala Lys
65                  70                  75                  80

Val Ile Ser Tyr Phe Arg Asp Leu Pro Ile Glu Asp Gln Ile Ser Cys
                85                  90                  95
```

<210> 5843
<211> 158
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (4)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5843
```
Val Thr Ala Xaa Ser Gly Ile Leu Asp Val Thr Val Val Tyr Leu Asn
 1           5               10                  15

Pro Glu Gln His Cys Cys Gln Glu Ser Ser Asp Glu Glu Ala Cys Pro
            20                  25                  30

Glu Asp Lys Gly Pro Gln Asp Pro Gln Ala Leu Ala Leu Asp Thr Gln
            35                  40                  45

Ile Pro Ala Thr Pro Gly Pro Lys Pro Leu Val Arg Thr Ser Arg Glu
    50                  55                  60

Pro Gly Lys Asp Val Thr Thr Ser Gly Tyr Ser Ser Val Ser Thr Ala
65                  70                  75                  80

Ser Pro Thr Ser Ser Val Asp Gly Gly Leu Gly Ala Leu Pro Gln Pro
                85                  90                  95

Thr Ser Val Leu Ser Leu Asp Ser Asp Ser His Thr Gln Pro Cys His
            100                 105                 110

His Gln Ala Arg Lys Ser Cys Leu Gln Cys Arg Pro Pro Ser Pro Pro
    115                 120                 125

Glu Ser Ser Val Pro Gln Gln Gln Val Lys Arg Ile Asn Leu Cys Ile
```

5130

```
          130                    135                    140
His Ser Glu Glu Glu Asp Met Asn Leu Gly Leu Val Arg Leu
145                    150                    155
```

```
<210> 5844
<211> 71
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (47)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (64)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5844
Gly Cys Leu Asn Asp Glu His Leu Glu Glu Leu Gly Gly Ile Leu Lys
 1               5                  10                  15

Ala Lys Leu Glu Gly His Phe Lys Asn Gln Glu Leu Arg Gln Val Lys
                20                  25                  30

Arg Gln Glu Glu Asn Tyr Asp Gln Gln Val Glu Met Ser Leu Xaa Asp
          35                  40                  45

Glu Asp Glu Cys Asp Val Tyr Ile Leu Thr Lys Val Ser Asp Ile Xaa
          50                  55                  60

His Ser Leu Phe Lys Tyr Leu
65                  70
```

```
<210> 5845
<211> 137
<212> PRT
<213> Homo sapiens

<400> 5845
Arg Gly Gln His Gln Leu Glu Gly Gly Leu Gly Gly Phe Gln Gly Leu
 1               5                  10                  15

His Gln Val Arg Arg Pro Cys Pro Glu Asp Trp Leu Leu Tyr Gly Arg
                20                  25                  30
```

5131

```
Lys Cys Tyr Phe Phe Ser Glu Glu Pro Arg Asp Trp Asn Thr Gly Arg
          35              40              45

Gln Tyr Cys His Thr His Glu Ala Val Leu Ala Val Ile Gln Ser Gln
      50              55              60

Lys Glu Leu Glu Phe Met Phe Lys Phe Thr Arg Arg Glu Pro Trp Ile
65              70              75              80

Gly Leu Arg Arg Val Gly Asp Glu Phe His Trp Val Asn Gly Asp Pro
              85              90              95

Phe Asp Pro Asp Thr Phe Thr Ile Ala Gly Pro Gly Glu Cys Val Phe
          100             105             110

Val Glu Pro Thr Arg Leu Val Ser Thr Glu Cys Leu Met Thr Arg Pro
          115             120             125

Trp Val Cys Ser Lys Met Ala Tyr Thr
    130             135
```

```
<210> 5846
<211> 130
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (121)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (130)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5846
Gly Ala Arg Pro Gly Ala Glu Gly Ala Arg Ala Phe Gly Gly Ser Ile
 1               5               10              15

Gly Leu Gln Ala Glu Glu Gln Gly Pro Cys His Leu Pro Gly Gly Arg
              20              25              30

Ser His Leu Cys Ser Gln Val Arg Gly Ser Ser Gly Gly Glu Thr Glu
          35              40              45

Cys Ala Ser Trp Glu Ala Pro Arg Ile Val Gly Gly Glu Leu Ala Ala
    50              55              60
```

5132

```
Ser Leu Ala Cys Pro Leu Phe Pro Val Pro Pro Ser Arg Leu Ala Pro
65              70              75              80

Ala Pro Ala Trp Glu Asp Pro His Leu Arg Leu Gln Cys Leu Phe Pro
            85              90              95

Leu Glu Ala Leu Pro Ser Ala Arg Gly Pro Arg Ile Leu Pro Trp Pro
            100             105             110

Ser Glu His Arg Leu Gly Arg Pro Xaa Asn Ser Ser Val Lys Pro Gly
            115             120             125

Ile Xaa
    130
```

```
<210> 5847
<211> 140
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (100)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (129)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5847
Glu Phe Gly Arg Gly Glu Ile Ser Arg Gly Pro Asp Val His Leu Thr
 1              5               10              15

His Gly Leu Glu Pro Lys Asp Val Asn Arg Glu Phe Arg Leu Thr Glu
            20              25              30

Ser Ser Thr Cys Glu Pro Ser Thr Val Ala Ala Val Leu Ser Arg Ala
            35              40              45

Gln Gly Cys Arg Ser Pro Ser Ala Pro Asp Val Arg Thr Gly Ser Phe
    50              55              60

Ser His Ser Ala Thr Asp Gly Ser Val Gly Leu Ile Gly Val Pro Glu
65              70              75              80

Lys Lys Val Ala Glu Lys Gln Ala Ser Thr Glu Leu Glu Ala Ala Ser
            85              90              95
```

5133

```
Phe Pro Ala Xaa Met Tyr Ser Glu Pro Leu Arg Gln Phe Arg Asp Ser
            100             105             110

Ser Val Gly Asp Gln Asn Ala Gln Val Cys Gln Thr Asn Ser Arg Thr
            115             120             125

Xaa Cys Asn Asn Ser Gly Asp His Thr Pro Trp Ile
    130             135             140
```

```
<210> 5848
<211> 194
<212> PRT
<213> Homo sapiens

<400> 5848
Leu Leu Ser Asn Lys Met Asn Phe Val Leu Val Lys Val Arg Tyr Asp
  1               5               10              15

Val Val Gly Met Phe Trp Asn Met Phe Phe Gln Val Ala Ser Gly Gly
            20              25              30

Gly Gly Val Gly Asp Gly Val Gln Glu Pro Thr Thr Gly Asn Trp Arg
            35              40              45

Gly Met Leu Lys Thr Ser Lys Ala Glu Glu Leu Leu Ala Glu Glu Lys
    50              55              60

Ser Lys Pro Ile Pro Ile Met Pro Ala Ser Pro Gln Lys Gly His Ala
 65              70              75              80

Val Asn Leu Leu Asp Val Pro Val Pro Val Ala Arg Lys Leu Ser Ala
            85              90              95

Arg Glu Gln Arg Asp Cys Glu Val Ile Glu Arg Leu Ile Lys Ser Tyr
            100             105             110

Phe Leu Ile Val Arg Lys Asn Ile Gln Asp Ser Val Pro Lys Ala Val
            115             120             125

Met His Phe Leu Val Asn His Val Lys Asp Thr Leu Gln Ser Glu Leu
    130             135             140

Val Gly Gln Leu Tyr Lys Ser Ser Leu Leu Asp Asp Leu Leu Thr Glu
145             150             155             160

Ser Glu Asp Met Ala Gln Arg Arg Lys Glu Ala Ala Asp Met Leu Lys
            165             170             175
```

5134

Ala Leu Gln Gly Ala Ser Gln Ile Ile Ala Glu Ile Arg Glu Thr His
            180   185   190

Leu Trp

<210> 5849
<211> 75
<212> PRT
<213> Homo sapiens

<400> 5849
Leu Phe Lys Val Ser Asn Val His Pro Gly Leu Gly Ile Thr Asn Val
 1   5   10   15

Gly Val Lys Met Pro Thr Lys Gly Phe Ser Ala Leu Glu Val Leu Arg
            20   25   30

Ser Pro Ile Cys Ile Lys Ala Asp Pro Phe Cys Lys Asp Leu Ser Phe
            35   40   45

Arg Thr Phe Ser Val Leu Leu Val Arg Thr Leu Glu Val Ile Leu Ile
        50   55   60

Ile Ser Thr Asp Ser Leu Thr Ala Glu Ala Thr
65   70   75

<210> 5850
<211> 241
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (4)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (199)
<223> Xaa equals any of the naturally occurring L-amino acids

5135

<220>
<221> SITE
<222> (226)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (229)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (230)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (231)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5850
Cys Xaa Phe Xaa Asn Ala Gly Val Lys Gln Ser Ala Leu Leu Gly Leu
 1   5   10   15

Lys Asp Leu Leu Ser Gln Tyr Pro Phe Ile Ile Asp Ala His Leu Ser
            20   25   30

Asn Ile Leu Ser Glu Val Thr Ala Val Phe Thr Asp Lys Asp Ala Asn
            35   40   45

Val Arg Leu Ala Ala Val Gln Leu Leu Gln Phe Leu Ala Pro Lys Ile
        50   55   60

Arg Ala Glu Gln Ile Ser Pro Phe Phe Pro Leu Val Ser Ala His Leu
65   70   75   80

Ser Ser Ala Met Thr His Ile Thr Glu Gly Ile Gln Glu Asp Ser Leu
                85   90   95

Lys Val Leu Asp Ile Leu Leu Glu Gln Tyr Pro Ala Leu Ile Thr Gly
                100   105   110

Arg Ser Ser Ile Leu Leu Lys Asn Phe Val Glu Leu Ile Ser His Gln
                115   120   125

Gln Leu Ser Lys Gly Leu Ile Asn Arg Asp Arg Ser Gln Ser Trp Ile
        130   135   140

Leu Ser Val Asn Pro Asn Arg Arg Leu Thr Ser Gln Gln Trp Arg Leu
145   150   155   160

5136

```
Lys Val Leu Val Arg Leu Ser Lys Phe Leu Gln Ala Leu Ala Asp Gly
             165             170             175
```

```
Ser Ser Arg Leu Arg Glu Ser Glu Gly Leu Gln Glu Gln Lys Glu Asn
             180             185             190
```

```
Pro His Ala Thr Ser Asn Xaa Ile Phe Ile Asn Trp Lys Glu His Ala
             195             200             205
```

```
Asn Asp Gln Gln His Ile Gln Gly Tyr Glu Asn Gly Gly Ser Gln Ala
     210             215             220
```

```
Lys Xaa Gly Pro Xaa Xaa Xaa Thr Asp Leu Val Gly Gly Leu Met Gly
225             230             235             240
```

```
Gly
```

<210> 5851
<211> 260
<212> PRT
<213> Homo sapiens

<400> 5851

```
Asn Ser Arg Thr Asp Val Arg Met Glu Thr Asp Leu Glu Val Ile Ile
1               5               10              15
```

```
Lys Asp Asn Ser Leu Val Leu Thr Pro Ser His Ile Lys Ala Tyr Met
             20              25              30
```

```
Leu Met Thr Leu Gln Gly Leu Glu Tyr Leu His Gln His Trp Ile Leu
         35              40              45
```

```
His Arg Asp Leu Lys Pro Asn Asn Leu Leu Leu Asp Glu Asn Gly Val
     50              55              60
```

```
Leu Lys Leu Ala Asp Phe Gly Leu Ala Lys Ser Phe Gly Ser Pro Asn
65              70              75              80
```

```
Arg Ala Tyr Thr His Gln Val Val Thr Arg Trp Tyr Arg Ala Pro Glu
             85              90              95
```

```
Leu Leu Phe Gly Ala Arg Met Tyr Gly Val Gly Val Asp Met Trp Ala
             100             105             110
```

```
Val Gly Cys Ile Leu Ala Glu Leu Leu Leu Arg Val Pro Phe Leu Pro
         115             120             125
```

```
Gly Asp Ser Asp Leu Asp Gln Leu Thr Arg Ile Phe Glu Thr Leu Gly
```

5137

```
          130                    135                    140

Thr Pro Thr Glu Glu Gln Trp Pro Asp Met Cys Ser Leu Pro Asp Tyr
145                    150                    155                    160

Val Thr Phe Lys Ser Phe Pro Gly Ile Pro Leu His His Ile Phe Ser
                   165                    170                    175

Ala Ala Gly Asp Asp Leu Leu Asp Leu Ile Gln Gly Leu Phe Leu Phe
                   180                    185                    190

Asn Pro Cys Ala Arg Ile Thr Ala Thr Gln Ala Leu Lys Met Lys Tyr
                   195                    200                    205

Phe Ser Asn Arg Pro Gly Pro Thr Pro Gly Cys Gln Leu Pro Arg Pro
       210                    215                    220

Asn Cys Pro Val Glu Thr Leu Lys Glu Gln Ser Asn Pro Ala Leu Ala
225                    230                    235                    240

Ile Lys Arg Lys Arg Thr Glu Ala Leu Glu Gln Gly Gly Leu Pro Lys
                   245                    250                    255

Lys Leu Ile Phe
           260
```

<210> 5852
<211> 94
<212> PRT
<213> Homo sapiens

<400> 5852
```
Ser Ser Tyr Arg Ser Lys Ala Tyr Thr His Thr Lys Ile Thr Val Pro
  1               5                  10                  15

Arg Glu Arg Val Cys Val Ser Val Arg Val Ser Val Cys Ala Arg Ala
               20                  25                  30

Arg Ser Trp Pro Asn Val Arg Thr Leu His Lys Gly Gly Arg Ser Ser
           35                  40                  45

Tyr Arg Leu Phe Asn Val Arg Glu Thr Ile Phe Leu Leu Phe Gln Leu
       50                  55                  60

Tyr Gln Ile Leu Val Pro Gln His Arg Asn Asp Ser Glu Ser Gln Thr
65                  70                  75                  80

Lys Cys Ile Ile Cys Ser Ile Leu Ile Leu Leu Leu His Ser
               85                  90
```

```
<210> 5853
<211> 89
<212> PRT
<213> Homo sapiens

<400> 5853
Cys Cys Leu Cys Gly Leu Trp Val Trp Thr Asn Pro Val Val Ala Cys
 1               5                  10                  15

Pro Pro Glu Pro Pro Pro Ser Gln Gln Arg His Gln Gly Ala Leu Gly
            20                  25                  30

Ser Pro Lys Thr Tyr His Ser Arg Val Pro Gln Ala Pro Gly Cys Cys
        35                  40                  45

Phe Leu Leu Pro Val Pro Gln Pro His Ala Pro Phe Tyr Ile Leu Cys
    50                  55                  60

Val Ser Lys Gly Trp Lys Asn Lys Thr Gln Leu Lys Ile Lys Lys Lys
65                  70                  75                  80

Lys Lys Lys Lys Lys Lys Lys Lys Lys
                85
```

```
<210> 5854
<211> 544
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (266)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (320)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (321)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
```

5139

<222> (527)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (528)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (529)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5854
Leu Ser Trp Pro Val Val Ala Asn Gln Val Leu Lys Leu Gly Asn Leu
 1   5   10   15

Glu Phe Lys Pro Glu Ser Arg Val Asn Gly Leu Asp Glu Ser Lys Ile
            20   25   30

Lys Asp Lys Asn Glu Leu Lys Glu Ile Cys Glu Leu Thr Gly Ile Asp
            35   40   45

Gln Ser Val Leu Glu Arg Ala Phe Ser Phe Arg Thr Val Glu Ala Lys
    50   55   60

Gln Glu Lys Val Ser Thr Thr Leu Asn Val Ala Gln Ala Tyr Tyr Ala
65   70   75   80

Arg Asp Ala Leu Ala Lys Asn Leu Tyr Ser Arg Leu Phe Ser Trp Leu
            85   90   95

Val Asn Arg Ile Asn Glu Ser Ile Lys Ala Gln Thr Lys Val Arg Lys
            100   105   110

Lys Val Met Gly Val Leu Asp Ile Tyr Gly Phe Glu Ile Phe Glu Asp
            115   120   125

Asn Ser Phe Glu Gln Phe Ile Ile Asn Tyr Cys Asn Glu Lys Leu Gln
    130   135   140

Gln Ile Phe Ile Glu Leu Thr Leu Lys Glu Glu Gln Glu Glu Tyr Ile
145   150   155   160

Arg Glu Asp Ile Glu Trp Thr His Ile Asp Tyr Phe Asn Asn Ala Ile
                165   170   175

Ile Cys Asp Leu Ile Glu Asn Asn Thr Asn Gly Ile Leu Ala Met Leu
            180   185   190

Asp Glu Glu Cys Leu Arg Pro Gly Thr Val Thr Asp Glu Thr Phe Leu

5140

```
              195              200              205

Glu Lys Leu Asn Gln Val Cys Ala Thr His Gln His Phe Glu Ser Arg
    210             215             220

Met Ser Lys Cys Ser Arg Phe Leu Asn Asp Thr Ser Leu Pro His Ser
225             230             235             240

Cys Phe Arg Ile Gln His Tyr Ala Gly Lys Val Leu Tyr Gln Val Glu
            245             250             255

Gly Phe Val Asp Lys Asn Asn Asp Leu Xaa Tyr Arg Asp Leu Ser Gln
            260             265             270

Ala Met Trp Lys Ala Ser His Ala Leu Ile Lys Ser Leu Phe Pro Glu
        275             280             285

Gly Asn Pro Ala Lys Ile Asn Leu Lys Arg Pro Pro Thr Ala Gly Ser
    290             295             300

Gln Phe Lys Ala Ser Val Ala Thr Leu Met Lys Asn Leu Gln Thr Xaa
305             310             315             320

Xaa Pro Asn Tyr Ile Arg Cys Ile Lys Pro Asn Asp Lys Lys Ala Ala
            325             330             335

His Ile Phe Asn Glu Ala Leu Val Cys His Gln Ile Arg Tyr Leu Gly
            340             345             350

Leu Leu Glu Asn Val Arg Val Arg Arg Ala Gly Tyr Ala Phe Arg Gln
        355             360             365

Ala Tyr Glu Pro Cys Leu Glu Arg Tyr Lys Met Leu Cys Lys Gln Thr
    370             375             380

Trp Pro His Trp Lys Gly Pro Ala Arg Ser Gly Val Glu Val Leu Phe
385             390             395             400

Asn Glu Leu Glu Ile Pro Val Glu Glu Tyr Ser Phe Gly Arg Ser Lys
            405             410             415

Ile Phe Ile Arg Asn Pro Arg Thr Leu Phe Lys Leu Glu Asp Leu Arg
            420             425             430

Lys Gln Arg Leu Glu Asp Leu Ala Thr Leu Ile Gln Lys Ile Tyr Arg
        435             440             445

Gly Trp Lys Cys Arg Thr His Phe Leu Leu Met Lys Lys Ser Gln Ile
    450             455             460

Val Ile Ala Ala Trp Tyr Arg Arg Tyr Ala Gln Gln Lys Arg Tyr Gln
```

5141

465   470   475   480

Gln Thr Lys Ser Ser Ala Leu Val Ile Gln Ser Tyr Ile Arg Gly Trp
                485   490   495

Lys Ala Arg Lys Ile Leu Arg Glu Leu Lys His Gln Lys Arg Cys Lys
            500   505   510

Glu Ala Val Thr Thr Ile Ala Ala Tyr Trp His Gly Thr Gln Xaa Xaa
        515   520   525

Xaa Lys Asn Gln Glu Ile Leu Gln Ser Gln Cys Trp Lys Arg Lys Ser
    530   535   540

<210> 5855
<211> 87
<212> PRT
<213> Homo sapiens

<400> 5855
Leu Cys Leu Leu Lys Arg Pro Ser Pro Ile Leu Phe Asn Pro Gly Ser
  1   5   10   15

Pro Ser Gly Gly Pro Thr Leu Gly Thr Thr Ser Pro Thr Asp Gly Pro
                20   25   30

Leu Ala Ser Ala Ile Leu Leu Ala Ala Ile Ser Trp Ala Lys Met Leu
            35   40   45

Leu Leu Pro Asp Val Ala Asp Phe Pro Cys Gly Ala Lys Arg Lys Pro
    50   55   60

Arg Leu Leu Met Leu Ile Ile Pro Leu Ser Ser Gln Pro Leu Tyr Ile
65   70   75   80

Lys Ala Ser Gly Thr Lys Arg
                85

<210> 5856
<211> 600
<212> PRT
<213> Homo sapiens

<220>

5142

<221> SITE
<222> (45)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (48)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (52)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (81)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (120)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (137)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (167)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (270)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5856
Arg Thr Arg Gly Lys Gln Ala Ala Asn Asn Ser Leu Leu Leu His Leu
 1   5   10   15

Leu Lys Ser Gln Thr Ile Pro Lys Pro Met Asn Gly His Ser His Ser
            20   25   30

Glu Arg Gly Ser Ile Phe Glu Glu Ser Ser Thr Pro Xaa Thr Ile Xaa
        35   40   45

Glu Tyr Ser Xaa Asn Asn Pro Ser Phe Thr Asp Asp Ser Ser Gly Asp
    50   55   60

5143

```
Glu Ser Ser Tyr Ser Asn Cys Val Pro Ile Asp Leu Ser Cys Lys His
65                  70              75              80

Xaa Thr Glu Lys Ser Glu Ser Asp Gln Pro Val Ser Leu Asp Asn Phe
                85              90              95

Thr Gln Ser Leu Leu Asn Thr Trp Asp Pro Lys Val Pro Asp Val Asp
            100             105             110

Ile Lys Glu Asp Gln Asp Thr Xaa Lys Asn Ser Lys Leu Asn Ser His
        115             120             125

Gln Lys Val Thr Leu Leu Gln Leu Xaa Leu Gly His Lys Asn Glu Glu
    130             135             140

Asn Val Glu Lys Asn Thr Ser Pro Gln Gly Val His Asn Asp Val Ser
145             150             155             160

Lys Phe Asn Thr Gln Asn Xaa Ala Arg Thr Ser Val Ile Glu Ser Pro
                165             170             175

Ser Thr Asn Arg Thr Thr Pro Val Ser Thr Pro Pro Leu Leu Thr Ser
            180             185             190

Ser Lys Ala Gly Ser Pro Ile Asn Leu Ser Gln His Ser Leu Val Ile
        195             200             205

Lys Trp Asn Ser Pro Pro Tyr Val Cys Ser Thr Gln Ser Glu Lys Leu
    210             215             220

Thr Asn Thr Ala Ser Asn His Ser Met Asp Leu Thr Lys Ser Lys Asp
225             230             235             240

Pro Pro Gly Glu Lys Pro Ala Gln Asn Glu Gly Ala Gln Asn Ser Ala
            245             250             255

Thr Phe Ser Ala Ser Lys Leu Leu Gln Asn Leu Ala Gln Xaa Gly Met
        260             265             270

Gln Ser Ser Met Ser Val Glu Glu Gln Arg Pro Ser Lys Gln Leu Leu
    275             280             285

Thr Gly Asn Thr Asp Lys Pro Ile Gly Met Ile Asp Arg Leu Asn Ser
    290             295             300

Pro Leu Leu Ser Asn Lys Thr Asn Ala Val Glu Glu Asn Lys Ala Phe
305             310             315             320

Ser Ser Gln Pro Thr Gly Pro Glu Pro Gly Leu Ser Gly Ser Glu Ile
            325             330             335
```

5144

```
Glu Asn Leu Leu Glu Arg Arg Thr Val Leu Gln Leu Leu Leu Gly Asn
          340             345             350

Pro Asn Lys Gly Lys Ser Glu Lys Lys Glu Lys Thr Pro Leu Arg Asp
          355             360             365

Glu Ser Thr Gln Glu His Ser Glu Arg Ala Leu Ser Glu Gln Ile Leu
    370             375             380

Met Val Lys Ile Lys Ser Glu Pro Cys Asp Asp Leu Gln Ile Pro Asn
385             390             395             400

Thr Asn Val His Leu Ser His Asp Ala Lys Ser Ala Pro Phe Leu Gly
              405             410             415

Met Ala Pro Ala Val Gln Arg Ser Ala Pro Ala Leu Pro Val Ser Glu
          420             425             430

Asp Phe Lys Ser Glu Pro Val Ser Pro Gln Asp Phe Ser Phe Ser Lys
          435             440             445

Asn Gly Leu Leu Ser Arg Leu Leu Arg Gln Asn Gln Asp Ser Tyr Leu
    450             455             460

Ala Asp Asp Ser Asp Arg Ser His Arg Asn Asn Glu Met Ala Leu Leu
465             470             475             480

Glu Ser Lys Asn Leu Cys Met Val Pro Lys Lys Arg Lys Leu Tyr Thr
              485             490             495

Glu Pro Leu Glu Asn Pro Phe Lys Lys Met Lys Asn Asn Ile Val Asp
          500             505             510

Ala Ala Asn Asn His Ser Ala Pro Glu Val Leu Tyr Gly Ser Leu Leu
          515             520             525

Asn Gln Glu Glu Leu Lys Phe Ser Arg Asn Asp Leu Glu Phe Lys Tyr
    530             535             540

Pro Ala Gly His Gly Ser Ala Ser Glu Ser Glu His Arg Ser Trp Ala
545             550             555             560

Arg Glu Ser Lys Ser Phe Asn Val Leu Lys Gln Leu Leu Leu Ser Glu
              565             570             575

Asn Cys Val Arg Asp Leu Ser Pro His Arg Ser Asn Ser Val Ala Asp
          580             585             590

Ser Lys Lys Glu Arg Thr Gln Lys
    595             600
```

5145

```
<210> 5857
<211> 308
<212> PRT
<213> Homo sapiens

<400> 5857
Gln Tyr Gly Arg Ile Pro Gly Ser Thr His Ala Ser Ala Glu Pro Leu
 1               5                   10                  15

Glu Asn Pro Phe Lys Lys Met Lys Asn Asn Ile Val Asp Ala Ala Asn
            20                  25                  30

Asn His Ser Ala Pro Glu Val Leu Tyr Gly Ser Leu Leu Asn Gln Glu
        35                  40                  45

Glu Leu Lys Phe Ser Arg Asn Asp Leu Glu Phe Lys Tyr Pro Ala Gly
    50                  55                  60

His Gly Ser Ala Ser Glu Ser Glu His Arg Ser Trp Ala Arg Glu Ser
65                  70                  75                  80

Lys Ser Phe Asn Val Leu Lys Gln Leu Leu Leu Ser Glu Asn Cys Val
                85                  90                  95

Arg Asp Leu Ser Pro His Arg Ser Asn Ser Val Ala Asp Ser Lys Lys
            100                 105                 110

Lys Gly His Lys Asn Asn Val Thr Asn Ser Lys Pro Glu Phe Ser Ile
            115                 120                 125

Ser Ser Leu Asn Gly Leu Met Tyr Ser Ser Thr Gln Pro Ser Ser Cys
    130                 135                 140

Met Asp Asn Arg Thr Phe Ser Tyr Pro Gly Val Val Lys Thr Pro Val
145                 150                 155                 160

Ser Pro Thr Phe Pro Glu His Leu Gly Cys Ala Gly Ser Arg Pro Glu
                165                 170                 175

Ser Gly Leu Leu Asn Gly Cys Ser Met Pro Ser Glu Lys Gly Pro Ile
            180                 185                 190

Lys Trp Val Ile Thr Asp Ala Glu Lys Asn Glu Tyr Glu Lys Asp Ser
            195                 200                 205

Pro Arg Leu Thr Lys Thr Asn Pro Ile Leu Tyr Tyr Met Leu Gln Lys
    210                 215                 220
```

5146

```
Gly Gly Asn Ser Val Thr Ser Arg Glu Thr Gln Asp Lys Asp Ile Trp
225             230                 235                 240

Arg Glu Ala Ser Ser Ala Glu Ser Val Ser Gln Val Thr Ala Lys Glu
            245             250                 255

Glu Leu Leu Pro Thr Ala Glu Thr Lys Ala Ser Phe Phe Asn Leu Arg
            260                 265                 270

Ser Pro Tyr Asn Ser His Met Gly Asn Asn Ala Ser Arg Pro His Ser
        275             280                 285

Ala Asn Gly Glu Val Tyr Gly Leu Leu Gly Ser Val Leu Thr Ile Lys
    290             295                 300

Lys Glu Ser Glu
305
```

```
<210> 5858
<211> 553
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (129)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (133)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (375)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (438)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (549)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5858
```

5147

```
Thr Leu Glu Ala Glu Lys Glu Arg Arg Lys Ser Gly Leu Ser Ser Arg
 1               5                10               15

Val Gln Phe Arg Asn Gln Gly Ser Glu Pro Lys Tyr Thr Gln Glu Leu
            20                25                30

Thr Leu Lys Arg Gln Lys Gln Lys Val Cys Met Glu Glu Thr Leu Trp
        35                40                45

Leu Gln Asp Asn Ile Arg Asp Lys Leu Arg Pro Ile Pro Ile Thr Ala
    50                55                60

Ser Val Glu Ile Gln Glu Pro Ser Ser Arg Arg Arg Val Asn Ser Leu
65                70                75                80

Pro Glu Val Leu Pro Ile Leu Asn Ser Asp Glu Pro Lys Thr Ala His
            85                90                95

Ile Asp Val His Phe Leu Lys Glu Gly Cys Gly Asp Asp Asn Val Cys
        100               105               110

Asn Ser Asn Leu Lys Leu Glu Tyr Lys Phe Cys Thr Arg Glu Gly Asn
        115               120               125

Xaa Asp Lys Phe Xaa Tyr Leu Pro Ile Gln Lys Gly Val Pro Glu Leu
    130               135               140

Val Leu Lys Asp Gln Lys Asp Ile Ala Leu Glu Ile Thr Val Thr Asn
145               150               155               160

Ser Pro Ser Asn Pro Arg Asn Pro Thr Lys Asp Gly Asp Asp Ala His
            165               170               175

Glu Ala Lys Leu Ile Ala Thr Phe Pro Asp Thr Leu Thr Tyr Ser Ala
            180               185               190

Tyr Arg Glu Leu Arg Ala Phe Pro Glu Lys Gln Leu Ser Cys Val Ala
        195               200               205

Asn Gln Asn Gly Ser Gln Ala Asp Cys Glu Leu Gly Asn Pro Phe Lys
    210               215               220

Arg Asn Ser Asn Val Thr Phe Tyr Leu Val Leu Ser Thr Thr Glu Val
225               230               235               240

Thr Phe Asp Thr Pro Asp Leu Asp Ile Asn Leu Lys Leu Glu Thr Thr
            245               250               255

Ser Asn Gln Asp Asn Leu Ala Pro Ile Thr Ala Lys Ala Lys Val Val
            260               265               270
```

5148

Ile Glu Leu Leu Leu Ser Val Ser Gly Val Ala Lys Pro Ser Gln Val
         275   280   285

Tyr Phe Gly Gly Thr Val Val Gly Glu Gln Ala Met Lys Ser Glu Asp
    290   295   300

Glu Val Gly Ser Leu Ile Glu Tyr Glu Phe Arg Val Ile Asn Leu Gly
305   310   315   320

Lys Pro Leu Thr Asn Leu Gly Thr Ala Thr Leu Asn Ile Gln Trp Pro
             325   330   335

Lys Glu Ile Ser Asn Gly Lys Trp Leu Leu Tyr Leu Val Lys Val Glu
             340   345   350

Ser Lys Gly Leu Glu Lys Val Thr Cys Glu Pro Gln Lys Glu Ile Asn
         355   360   365

Ser Leu Asn Leu Thr Glu Xaa His Asn Ser Arg Lys Lys Arg Glu Ile
    370   375   380

Thr Glu Lys Gln Ile Asp Asp Asn Arg Lys Phe Ser Leu Phe Ala Glu
385   390   395   400

Arg Lys Tyr Gln Thr Leu Asn Cys Ser Val Asn Val Asn Cys Val Asn
             405   410   415

Ile Arg Cys Pro Leu Arg Gly Leu Asp Ser Lys Ala Ser Leu Ile Leu
         420   425   430

Arg Ser Arg Leu Trp Xaa Ser Thr Phe Leu Glu Glu Tyr Ser Lys Leu
         435   440   445

Asn Tyr Leu Asp Ile Leu Met Arg Ala Phe Ile Asp Val Thr Ala Ala
    450   455   460

Ala Glu Asn Ile Arg Leu Pro Asn Ala Gly Thr Gln Val Arg Val Thr
465   470   475   480

Val Phe Pro Ser Lys Thr Val Ala Gln Tyr Ser Gly Val Pro Trp Trp
             485   490   495

Ile Ile Leu Val Ala Ile Leu Ala Gly Ile Leu Met Leu Ala Leu Leu
         500   505   510

Val Phe Ile Leu Trp Lys Cys Gly Phe Phe Lys Arg Asn Lys Lys Asp
    515   520   525

His Tyr Asp Ala Thr Tyr His Lys Ala Glu Ile His Ala Gln Pro Ser
    530   535   540

5149

Asp Lys Glu Arg Xaa Thr Ser Asp Ala
545   550

<210> 5859
<211> 110
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (110)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5859
Arg Thr Pro Glu Ser Trp Arg Leu Thr Pro Pro Ala Lys Val Gly Gly
  1   5   10   15

Leu Asp Phe Ser Pro Val Gln Thr Ser Gln Gly Ala Ser Asp Pro Leu
            20   25   30

Pro Asp Pro Leu Gly Leu Met Asp Leu Ser Thr Thr Pro Leu Gln Ser
          35   40   45

Ala Pro Pro Leu Glu Ser Pro Gln Arg Leu Leu Ser Ser Glu Pro Leu
        50   55   60

Asp Leu Ile Ser Val Pro Phe Gly Asn Ser Ser Pro Ser Asp Ile Asp
 65   70   75   80

Val Pro Lys Pro Gly Ser Pro Glu Pro Gln Val Ser Gly Leu Ala Ala
              85   90   95

Asn Arg Ser Leu Thr Glu Gly Leu Val Leu Gly His Asn Xaa
              100   105   110

<210> 5860
<211> 198
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5860
Pro Xaa Arg Pro Arg Gly Ala Ala Ala Ala Ala Ala Ala Gly Ala

5150

```
      1                   5                    10                   15
 Ala Met Pro Lys Gly Gly Arg Lys Gly Gly His Lys Gly Arg Ala Arg
             20                  25                  30

 Gln Tyr Thr Ser Pro Glu Glu Ile Asp Ala Gln Leu Gln Ala Glu Lys
             35                  40                  45

 Gln Lys Ala Arg Glu Glu Glu Gln Lys Glu Gly Gly Asp Gly Ala
     50                  55                  60

 Ala Gly Asp Pro Lys Lys Glu Lys Lys Ser Leu Asp Ser Asp Glu Ser
 65              70                  75                      80

 Glu Asp Glu Glu Asp Asp Tyr Gln Gln Lys Arg Lys Gly Val Glu Gly
                 85                  90                  95

 Leu Ile Asp Ile Glu Asn Pro Asn Arg Val Ala Gln Thr Thr Lys Lys
             100                 105                 110

 Val Thr Gln Leu Asp Leu Asp Gly Pro Lys Glu Leu Ser Arg Arg Glu
         115                 120                 125

 Arg Glu Glu Ile Glu Lys Gln Lys Ala Lys Glu Arg Tyr Met Lys Met
     130                 135                 140

 His Leu Ala Gly Lys Thr Glu Gln Ala Lys Ala Asp Leu Ala Arg Leu
 145             150                 155                 160

 Ala Ile Ile Arg Lys Gln Arg Glu Glu Ala Ala Arg Lys Lys Glu Glu
             165                 170                 175

 Glu Arg Lys Ala Lys Asp Asp Ala Thr Leu Ser Gly Lys Arg Met Gln
             180                 185                 190

 Ser Leu Ser Leu Asn Lys
             195
```

```
<210> 5861
<211> 63
<212> PRT
<213> Homo sapiens

<400> 5861
Lys Asn Lys Thr Lys Ala Val Phe Pro Asn Phe Gly Met Asn Pro Pro
  1               5                   10                  15

Leu Phe Gln Met Lys Thr Ala Ser Arg Ser Ser Ser Lys Arg Lys Ser
             20                  25                  30
```

5151

```
Leu Gly Gly Ala Gln Arg Ala Arg Cys Pro Ser Thr Ser Val Leu Gly
        35                  40                  45

Thr Trp Arg Val Ala Ala Ser Pro Pro Ala Pro Val Pro Ser Cys
    50                  55                  60
```

<210> 5862
<211> 229
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (221)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5862
```
Ala Thr Lys Ile Asn Leu Ser Leu Ser Ala Leu Gly Asn Val Ile Ser
 1               5                  10                  15

Ala Leu Val Asp Gly Lys Ser Thr His Ile Pro Tyr Arg Asp Ser Lys
            20                  25                  30

Leu Thr Arg Leu Leu Gln Asp Ser Leu Gly Gly Asn Ala Lys Thr Val
        35                  40                  45

Met Val Ala Asn Val Gly Pro Ala Ser Tyr Asn Val Glu Glu Thr Leu
    50                  55                  60

Thr Thr Leu Arg Tyr Ala Asn Arg Ala Lys Asn Ile Lys Asn Lys Pro
65                  70                  75                  80

Arg Val Asn Glu Asp Pro Lys Asp Ala Leu Leu Arg Glu Phe Gln Glu
                85                  90                  95

Glu Ile Ala Arg Leu Lys Ala Gln Leu Glu Lys Arg Ser Ile Gly Arg
                100                 105                 110

Arg Lys Arg Arg Glu Lys Arg Arg Glu Gly Gly Gly Ser Gly Gly Gly
        115                 120                 125

Gly Glu Glu Glu Glu Glu Glu Gly Glu Glu Gly Glu Glu Glu Gly Asp
        130                 135                 140

Asp Lys Asp Asp Tyr Trp Arg Glu Gln Gln Glu Lys Leu Glu Ile Glu
145                 150                 155                 160

Lys Arg Ala Ile Val Glu Asp His Ser Leu Val Ala Glu Glu Lys Met
```

5152

                165   170   175

Arg Leu Leu Lys Glu Lys Glu Lys Lys Met Glu Asp Leu Arg Arg Glu
            180   185   190

Lys Asp Ala Ala Glu Met Leu Gly Ala Lys Ile Lys Val Pro Tyr Pro
            195   200   205

Tyr Pro Ser Leu Gly Pro Cys Pro Val Thr Ala Phe Xaa Phe Ile Lys
        210   215   220

Gln Gln Gln Lys Thr
225

<210> 5863
<211> 298
<212> PRT
<213> Homo sapiens

<400> 5863
Cys Glu Arg Gly Ser Leu His Phe Thr Gly Val Thr Gly Gly Asn Leu
    1   5   10   15

Arg Val Asn Gly Lys Glu Arg Ala Ser Gly Ile Tyr Phe Gly Ala Asn
            20   25   30

Glu Ala Leu Leu Ala Val Lys Asp Tyr Ile Arg Thr Gln Ile Ile Ser
        35   40   45

Lys Lys Ile Asn Thr Lys Phe Phe Gln Glu Glu Asn Thr Glu Lys Leu
    50   55   60

Lys Leu Lys Tyr Tyr Asn Leu Met Ile Gln Leu Asp Gln His Glu Gly
65   70   75   80

Ser Tyr Leu Ser Ile Cys Lys His Tyr Arg Ala Ile Tyr Asp Thr Pro
                85   90   95

Cys Ile Gln Ala Glu Ser Glu Lys Trp Gln Gln Ala Leu Lys Ser Val
            100   105   110

Val Leu Tyr Val Ile Leu Ala Pro Phe Asp Asn Glu Gln Ser Asp Leu
        115   120   125

Val His Arg Ile Ser Gly Asp Lys Lys Leu Glu Glu Ile Pro Lys Tyr
        130   135   140

Lys Asp Leu Leu Lys Leu Phe Thr Thr Met Glu Leu Met Arg Trp Ser
145   150   155   160

5153

```
Thr Leu Val Glu Asp Tyr Gly Met Glu Leu Arg Lys Gly Ser Leu Glu
              165             170             175

Ser Pro Ala Thr Asp Val Phe Gly Ser Thr Glu Glu Gly Glu Lys Arg
              180             185             190

Trp Lys Asp Leu Lys Asn Arg Val Val Glu His Asn Ile Arg Ile Met
              195             200             205

Ala Lys Tyr Tyr Thr Arg Ile Thr Met Lys Arg Met Ala Gln Leu Leu
       210             215             220

Asp Leu Ser Val Asp Glu Ser Glu Ala Phe Leu Ser Asn Leu Val Val
225             230             235             240

Asn Lys Thr Ile Phe Ala Lys Val Asp Arg Leu Ala Gly Ile Ile Asn
              245             250             255

Phe Gln Arg Pro Lys Asp Pro Asn Asn Leu Leu Asn Asp Trp Ser Gln
              260             265             270

Lys Leu Asn Ser Leu Met Ser Leu Val Asn Lys Thr Thr His Leu Ile
              275             280             285

Ala Lys Glu Glu Met Ile His Asn Leu Gln
       290             295
```

```
<210> 5864
<211> 102
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (10)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5864
Asn Ser Ala Glu Cys Asn Pro Arg Phe Xaa Asn Ala Thr Ile Val Cys
 1               5               10              15

Asn Ser Leu Asp Gly Ser Asn Trp Gly Gln Glu Gln Arg Glu Asp His
              20              25              30

Leu Cys Phe Ser Pro Gly Ser Glu Val Lys Val Arg Ser Lys Gly Glu
       35              40              45

Arg Ala Leu Gly Val Met Ser Arg Gly Gly Pro Arg Trp Lys Arg Ala
```

5154

```
        50                        55                        60

Trp Pro Gly Thr Gln Trp Leu Ala Leu Phe Glu Pro Ser Gly Thr Ala
 65                        70                  75                        80

Leu Ala His Phe Gln Gly Leu Leu Pro Pro Leu Thr Pro Ser Leu Pro
                     85                  90                        95

Thr Val His Ser Asp Leu
                    100
```

<210> 5865
<211> 345
<212> PRT
<213> Homo sapiens

<400> 5865

```
Leu Pro Val Arg Ala Glu Pro Thr Arg Ala Ala Ala Met Ser Gly Asp
  1               5                  10                  15

Glu Met Ile Phe Asp Pro Thr Met Ser Lys Lys Lys Lys Lys Lys Lys
                20                  25                  30

Lys Pro Phe Met Leu Asp Glu Glu Gly Asp Thr Gln Thr Glu Glu Thr
             35                  40                  45

Gln Pro Ser Glu Thr Lys Glu Val Glu Pro Glu Pro Thr Glu Asp Lys
        50                  55                  60

Asp Leu Glu Ala Asp Glu Glu Asp Thr Arg Lys Lys Asp Ala Ser Asp
 65                  70                  75                        80

Asp Leu Asp Asp Leu Asn Phe Phe Asn Gln Lys Lys Lys Lys Lys Lys
                85                  90                  95

Thr Lys Lys Ile Phe Asp Ile Asp Glu Ala Glu Glu Gly Val Lys Asp
            100                 105                 110

Leu Lys Ile Glu Ser Asp Val Gln Glu Pro Thr Glu Pro Glu Asp Asp
            115                 120                 125

Leu Asp Ile Met Leu Gly Asn Lys Lys Lys Lys Lys Asn Val Lys
        130                 135                 140

Phe Pro Asp Glu Asp Glu Ile Leu Glu Lys Asp Glu Ala Leu Glu Asp
145                 150                 155                 160

Glu Asp Asn Lys Lys Asp Asp Gly Ile Ser Phe Ser Asn Gln Thr Gly
                    165                 170                 175
```

5155

```
Pro Ala Trp Ala Gly Ser Glu Arg Asp Tyr Thr Tyr Glu Glu Leu Leu
        180                 185             190

Asn Arg Val Phe Asn Ile Met Arg Glu Lys Asn Pro Asp Met Val Ala
        195             200             205

Gly Glu Lys Arg Lys Phe Val Met Lys Pro Pro Gln Val Val Arg Val
    210             215             220

Gly Thr Lys Lys Thr Ser Phe Val Asn Phe Thr Asp Ile Cys Lys Leu
225             230             235             240

Leu His Arg Gln Pro Lys His Leu Leu Ala Phe Leu Leu Ala Glu Leu
            245             250             ·255

Gly Thr Ser Gly Ser Ile Asp Gly Asn Asn Gln Leu Val Ile Lys Gly
            260             265             270

Arg Phe Gln Gln Lys Gln Ile Glu Asn Val Leu Arg Arg Tyr Ile Lys
        275             280             285

Glu Tyr Val Thr Cys His Thr Cys Arg Ser Pro Asp Thr Ile Leu Gln
    290             295             300

Lys Asp Thr Arg Leu Tyr Phe Leu Gln Cys Glu Thr Cys His Ser Arg
305             310             315             320

Cys Ser Val Ala Ser Ile Lys Thr Gly Phe Gln Ala Val Thr Gly Lys
            325             330             335

Arg Ala Gln Leu Arg Ala Lys Ala Asn
            340             345
```

<210> 5866
<211> 194
<212> PRT
<213> Homo sapiens

<400> 5866
```
Arg Thr Ser Met Gly Ile Leu Tyr Ser Glu Pro Ile Cys Gln Ala Ala
 1               5               10              15

Tyr Gln Asn Asp Phe Gly Gln Val Trp Arg Trp Val Lys Glu Asp Ser
            20              25              30

Ser Tyr Ala Asn Val Gln Asp Gly Phe Asn Gly Asp Thr Pro Leu Ile
            35              40              45
```

5156

```
Cys Ala Cys Arg Arg Gly His Val Arg Ile Val Ser Phe Leu Leu Arg
        50              55              60
Arg Asn Ala Asn Val Asn Leu Lys Asn Gln Lys Glu Arg Thr Cys Leu
    65              70              75              80
His Tyr Ala Val Lys Lys Phe Thr Phe Ile Asp Tyr Leu Leu Ile
                85              90              95
Ile Leu Leu Met Pro Val Leu Leu Ile Gly Tyr Phe Leu Met Val Ser
            100             105             110
Lys Thr Lys Gln Asn Glu Ala Leu Val Arg Met Leu Leu Asp Ala Gly
        115             120             125
Val Glu Val Asn Ala Thr Asp Cys Tyr Gly Cys Thr Ala Leu His Tyr
    130             135             140
Ala Cys Glu Met Lys Asn Gln Ser Leu Ile Pro Leu Leu Leu Glu Ala
145             150             155             160
Arg Ala Asp Pro Thr Ile Lys Asn Lys His Gly Glu Ser Ser Leu Asp
            165             170             175
Ile Ala Arg Arg Leu Lys Phe Ser Gln Ile Glu Leu Met Leu Arg Lys
            180             185             190
Ala Leu
```

```
<210> 5867
<211> 469
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (8)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (47)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (65)
<223> Xaa equals any of the naturally occurring L-amino acids
```

5157

```
<220>
<221> SITE
<222> (436)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5867
Ser Ala Ser Phe Ser Arg Gly Xaa Gln Leu Ser Phe Thr Asp Leu Gly
 1               5                  10                  15

Leu Pro Pro Thr Asp His Leu Gln Ala Ser Phe Gly Phe Gln Thr Phe
             20              25                  30

Gln Pro Ser Gly Ile Leu Leu Asp His Gln Thr Trp Thr Arg Xaa Leu
         35              40                  45

Gln Val Thr Leu Glu Asp Gly Tyr Ile Glu Leu Ser Thr Ser Asp Ser
     50                  55                  60

Xaa Gly Pro Ile Phe Lys Ser Pro Gln Thr Tyr Met Asp Gly Leu Leu
 65              70                  75                  80

His Tyr Val Ser Val Ile Ser Asp Asn Ser Gly Leu Arg Leu Leu Ile
             85                  90                  95

Asp Asp Gln Leu Leu Arg Asn Ser Lys Arg Leu Lys His Ile Ser Ser
             100             105                 110

Ser Arg Gln Ser Leu Arg Leu Gly Gly Ser Asn Phe Glu Gly Cys Ile
         115             120                 125

Ser Asn Val Phe Val Gln Arg Leu Ser Leu Ser Pro Glu Val Leu Asp
         130             135                 140

Leu Thr Ser Asn Ser Leu Lys Arg Asp Val Ser Leu Gly Gly Cys Ser
145             150                 155                 160

Leu Asn Lys Pro Pro Phe Leu Met Leu Leu Lys Gly Ser Thr Arg Phe
             165             170                 175

Asn Lys Thr Lys Thr Phe Arg Ile Asn Gln Leu Leu Gln Asp Thr Pro
             180             185                 190

Val Ala Ser Pro Arg Ser Val Lys Val Trp Gln Asp Ala Cys Ser Pro
         195             200                 205

Leu Pro Lys Thr Gln Ala Asn His Gly Ala Leu Gln Phe Gly Asp Ile
     210             215                 220

Pro Thr Ser His Leu Leu Phe Lys Leu Pro Gln Glu Leu Leu Lys Pro
225             230                 235                 240
```

5158

```
Arg Ser Gln Phe Ala Val Asp Met Gln Thr Thr Ser Ser Arg Gly Leu
             245             250             255

Val Phe His Thr Gly Thr Lys Asn Ser Phe Met Ala Leu Tyr Leu Ser
             260             265             270

Lys Gly Arg Leu Val Phe Ala Leu Gly Thr Asp Gly Lys Lys Leu Arg
         275             280             285

Ile Lys Ser Lys Glu Lys Cys Asn Asp Gly Lys Trp His Thr Val Val
     290             295             300

Phe Gly His Asp Gly Glu Lys Gly Arg Leu Val Val Asp Gly Leu Arg
305             310             315             320

Ala Arg Glu Gly Ser Leu Pro Gly Asn Ser Thr Ile Ser Ile Arg Ala
             325             330             335

Pro Val Tyr Leu Gly Ser Pro Ser Gly Lys Pro Lys Ser Leu Pro
             340             345             350

Thr Asn Ser Phe Val Gly Cys Leu Lys Asn Phe Gln Leu Asp Ser Lys
         355             360             365

Pro Leu Tyr Thr Pro Ser Ser Ser Phe Gly Val Ser Ser Cys Leu Gly
370             375             380

Gly Pro Leu Glu Lys Gly Ile Tyr Phe Ser Glu Glu Gly Gly His Val
385             390             395             400

Val Leu Ala His Ser Val Leu Leu Gly Pro Glu Phe Lys Leu Val Phe
             405             410             415

Ser Ile Arg Pro Arg Ser Leu Thr Gly Ile Leu Ile His Ile Gly Ser
             420             425             430

Gln Pro Gly Xaa Ala Leu Met Cys Leu Pro Gly Gly Arg Lys Gly His
         435             440             445

Gly Leu Tyr Gly Gln Trp Gly Arg Trp Asp Leu Asn Val Gly His Thr
         450             455             460

Lys Ala Val Ser Val
465
```

```
<210> 5868
<211> 83
<212> PRT
```

5159

<213> Homo sapiens

<400> 5868

```
Phe Leu Ile Leu Ser Gly Glu Leu Leu Ala Arg Ile Ile Tyr Leu Gln
1               5               10              15

Ile Ile Leu Asp Gln Arg Leu Gly Ala Gly Leu Thr Pro Ser Ser Arg
            20              25              30

Leu Gly Ala Ser Ile His Phe Leu Val Gly Leu Asn Ile Pro Pro Ala
        35              40              45

Phe Arg Arg Ile His Arg Thr Tyr Cys Ser Phe Gln Met Thr Phe Trp
    50              55              60

Lys Ile Val Pro Phe Ala Asn Arg Asn Met Pro Glu Gly Ile Phe Ser
65              70              75              80

Ser Phe Ile
```

<210> 5869
<211> 117
<212> PRT
<213> Homo sapiens

<400> 5869

```
Ser Cys Thr Arg His Gln Ser Leu Pro Gly Ser Cys Asp Glu Leu His
1               5               10              15

Leu Ser Pro Phe Leu Pro Gln Pro Gln Thr Leu Ser Phe Lys Glu Gly
            20              25              30

Leu Pro Gly Ser Leu His Pro Thr Ala Pro Met Arg Leu Gly Pro Arg
        35              40              45

Val His Ser Pro Gly Gly Ser Gln Leu Ser Gly Arg Ser Phe Pro Pro
    50              55              60

Asn Ile Phe Gln Leu Leu Gly Gly Asp His Arg Ala Leu Leu Leu Lys
65              70              75              80

Ile Trp Leu Leu Gln Arg Pro Glu Ser Gln Glu Gly Leu Leu Pro Gly
            85              90              95

Arg Leu Val Val Met Glu Arg Arg Val Lys Met Thr Ser Cys Pro Ser
            100             105             110

Cys Pro Arg Phe Cys
```

5160

115

```
<210> 5870
<211> 170
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (47)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (149)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (155)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5870
Arg Thr Tyr Phe Pro Val Lys Met Pro Thr Thr Lys Lys Thr Leu Met
 1               5                  10                  15

Phe Leu Ser Ser Phe Phe Thr Ser Leu Gly Ser Phe Ile Val Ile Cys
                20              25                  30

Ser Ile Leu Gly Thr Gln Ala Trp Ile Thr Ser Thr Ile Ala Xaa Arg
            35              40                  45

Asp Ser Ala Ser Asn Gly Ser Ile Phe Ile Thr Tyr Gly Leu Phe Arg
        50              55                  60

Gly Glu Ser Ser Glu Glu Leu Ser His Gly Leu Ala Glu Pro Lys Lys
65                  70                  75                  80

Lys Phe Ala Val Leu Glu Ile Leu Asn Asn Ser Ser Gln Lys Asn Ser
                85                  90                  95

Ala Phe Gly Asp Tyr Pro Val Pro Gly Pro Glu Phe Asp His Val Ala
            100             105                 110

Ala Glu Leu Trp Val Tyr Leu Leu Gln Gln His Gln Gln Pro Leu Pro
            115             120                 125

Asp Ile Pro Gly Ala Arg Arg Gly Cys Thr Pro Gly Thr Gly Ser Gly
        130             135                 140
```

5161

```
Ile Leu Arg Phe Xaa Thr Met Ile Leu Leu Xaa Arg Thr Arg Ser Pro
145             150             155             160

Thr Asn Phe Pro Lys Val Val Gln Met Leu
                165                 170
```

```
<210> 5871
<211> 173
<212> PRT
<213> Homo sapiens

<400> 5871
Arg Thr Tyr Phe Pro Val Lys Met Pro Thr Thr Lys Lys Thr Leu Met
  1           5               10              15

Phe Leu Ser Ser Phe Phe Thr Ser Leu Gly Ser Phe Ile Val Ile Cys
            20              25              30

Ser Ile Leu Gly Thr Gln Ala Trp Ile Thr Ser Thr Ile Ala Val Arg
        35              40              45

Asp Ser Ala Ser Asn Gly Ser Ile Phe Ile Thr Tyr Gly Leu Phe Arg
      50              55              60

Gly Glu Ser Ser Glu Glu Leu Ser His Gly Leu Ala Glu Pro Lys Lys
 65              70              75              80

Lys Phe Ala Ala Ser Phe Val Phe Val Thr Met Ile Leu Phe Val Ala
            85              90              95

Asn Thr Gln Ser Asn Gln Leu Ser Glu Glu Leu Phe Gln Met Leu Tyr
            100             105             110

Pro Ala Thr Thr Ser Lys Gly Thr Thr His Ser Tyr Gly Tyr Ser Phe
            115             120             125

Trp Leu Ile Leu Leu Val Ile Leu Leu Asn Ile Val Thr Val Thr Ile
    130             135             140

Ile Ile Phe Tyr Gln Lys Ala Arg Tyr Gln Arg Lys Gln Glu Gln Arg
145             150             155             160

Lys Pro Met Glu Tyr Ala Pro Arg Asp Gly Ile Leu Phe
                165                 170
```

```
<210> 5872
```

5162

```
<211> 132
<212> PRT
<213> Homo sapiens

<400> 5872
His Arg Asn Arg Pro Ser Gln Cys His Leu Leu Asn Leu Trp Arg Pro
1               5                   10                  15

Pro Asp Leu Glu Glu Pro Thr Lys Val Asp Lys Leu Gln Glu Pro Leu
            20                  25                  30

Leu Glu Ala Leu Lys Ile Tyr Ile Arg Lys Arg Arg Pro Ser Lys Pro
        35                  40                  45

His Met Phe Pro Lys Ile Leu Met Lys Ile Thr Asp Leu Arg Ser Ile
        50                  55                  60

Ser Ala Lys Gly Ala Glu Arg Val Ile Thr Leu Lys Met Glu Ile Pro
65                  70                  75                  80

Gly Ser Met Pro Pro Leu Ile Gln Glu Met Leu Glu Asn Ser Glu Gly
            85                  90                  95

His Glu Pro Leu Thr Pro Ser Ser Ser Gly Asn Thr Ala Glu His Ser
            100                 105                 110

Pro Ser Ile Ser Pro Ser Ser Val Glu Asn Ser Gly Val Ser Gln Ser
        115                 120                 125

Pro Leu Val Gln
    130
```

```
<210> 5873
<211> 326
<212> PRT
<213> Homo sapiens

<400> 5873
Ala His Ala Ser Ala His Ala Ser Ala Trp Val Pro Ala Pro Gln Arg
1               5                   10                  15

Ser Arg Asp Ser Pro Arg Arg Arg Ala Arg Arg Pro Glu Leu Pro Lys
            20                  25                  30

Pro Ser Arg Ala Ala His Thr Pro Gly Leu His Ser Leu Phe Gln His
        35                  40                  45

Pro Leu Val Leu Ala Ala Ala Arg Val Pro Glu Thr Glu Leu Pro Gln
    50                  55                  60
```

5163

```
Arg Pro Arg Arg Arg Arg Cys Glu Gly Pro Met Arg Ala Pro Leu Leu
65               70           75               80

Pro Pro Ala Pro Val Val Leu Ser Leu Leu Ile Leu Gly Ser Gly His
            85           90           95

Tyr Ala Ala Gly Leu Asp Leu Asn Asp Thr Tyr Ser Gly Lys Arg Glu
            100          105          110

Pro Phe Ser Gly Asp His Ser Ala Asp Gly Phe Glu Val Thr Ser Arg
            115          120          125

Ser Glu Met Ser Ser Gly Ser Glu Ile Ser Pro Val Ser Glu Met Pro
    130              135          140

Ser Ser Ser Glu Pro Ser Ser Gly Ala Asp Tyr Asp Tyr Ser Glu Glu
145          150              155          160

Tyr Asp Asn Glu Pro Gln Ile Pro Gly Tyr Ile Val Asp Asp Ser Val
            165          170          175

Arg Val Glu Gln Val Val Lys Pro Pro Gln Asn Lys Thr Glu Ser Glu
        180          185          190

Asn Thr Ser Asp Lys Pro Lys Arg Lys Lys Lys Gly Gly Lys Asn Gly
        195          200          205

Lys Asn Arg Arg Asn Arg Lys Lys Lys Asn Pro Cys Asn Ala Glu Phe
    210          215          220

Gln Asn Phe Cys Ile His Gly Glu Cys Lys Tyr Ile Glu His Leu Glu
225          230          235          240

Ala Val Thr Cys Lys Cys Gln Gln Glu Tyr Phe Gly Glu Arg Cys Gly
            245          250          255

Glu Lys Ser Met Lys Thr His Ser Met Ile Asp Ser Ser Leu Ser Lys
        260          265          270

Ile Ala Leu Ala Ala Ile Ala Ala Phe Met Ser Ala Val Ile Leu Thr
        275          280          285

Ala Val Ala Val Ile Thr Val Gln Leu Arg Arg Gln Tyr Val Arg Lys
    290          295          300

Tyr Glu Gly Glu Ala Glu Glu Arg Lys Lys Leu Arg Gln Glu Asn Gly
305          310          315          320

Asn Val His Ala Ile Ala
            325
```

5164

<210> 5874
<211> 58
<212> PRT
<213> Homo sapiens

<400> 5874
Ala Pro Gln Arg Ser Ser Leu Val Asp Arg Val Arg Leu His Leu Lys
1   5   10   15

Lys Ile Lys Ile Lys Leu Phe Ser Glu Glu Gln Met Ser His Ser Ser
                20   25   30

Asn Asp Pro Leu Ser Arg Asn Met Val Glu Phe Ser Pro Ile Gln Val
            35   40   45

Ser His Ile Gln Lys Thr Thr Ser His Tyr
        50   55

<210> 5875
<211> 93
<212> PRT
<213> Homo sapiens

<400> 5875
Gly Arg Leu Trp Ser Arg Glu Glu Ala Met Ala Thr Met Glu Asn Lys
1   5   10   15

Val Ile Cys Ala Leu Val Leu Val Ser Met Leu Ala Leu Gly Thr Leu
                20   25   30

Ala Glu Ala Gln Thr Glu Thr Cys Thr Val Ala Pro Arg Glu Arg Gln
            35   40   45

Asn Cys Gly Phe Pro Gly Val Thr Pro Ser Gln Cys Ala Asn Lys Gly
        50   55   60

Cys Cys Phe Asp Asp Thr Val Arg Gly Val Pro Trp Cys Phe Tyr Pro
65   70   75   80

Asn Thr Ile Asp Val Pro Pro Glu Glu Glu Cys Glu Phe
                85   90

<210> 5876
<211> 55

5165

<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (24)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5876
Lys Val Pro Val Arg Asn Ser Arg Val Asp Pro Arg Val Arg Ile Ser
 1   5   10   15

Pro Arg Ala Arg Leu Pro Pro Xaa Pro Asp Thr Ser Asp Thr Leu Leu
            20   25   30

Gln Leu Cys Leu Gly Ser Gln His Arg Leu Thr Ala Leu Thr Leu Thr
        35   40   45

Thr Gln Asn Trp Pro Lys Asn
    50   55

<210> 5877
<211> 214
<212> PRT
<213> Homo sapiens

<400> 5877
Ala Gly Arg Pro Met Lys Val Gly His Val Thr Glu Arg Thr Asp Ala
 1   5   10   15

Ser Ser Ala Ser Ser Phe Leu Asp Ser Asp Glu Leu Glu Arg Thr Gly
            20   25   30

Ile Asp Leu Gly Thr Thr Gly Arg Leu Gln Leu Met Ala Arg Leu Ala
            35   40   45

Glu Gly Thr Gly Leu Gln Ile Pro Pro Ala Ala Gln Gln Ala Leu Gln
    50   55   60

Met Ser Gly Ser Leu Ala Phe Gly Ala Val Ala Glu Phe Ser Phe Val
65   70   75   80

Ile Asp Leu Gln Thr Arg Leu Ser Gln Gln Thr Glu Ala Ser Ala Leu
            85   90   95

Ala Ala Ala Ala Ser Val Gln Pro Leu Ala Thr Gln Cys Phe Gln Leu
            100   105   110

Ser Asn Met Phe Asn Pro Gln Thr Glu Glu Glu Val Gly Trp Asp Thr

5166

```
           115                    120                    125
Glu Ile Lys Asp Asp Val Ile Glu Glu Cys Asn Lys His Gly Gly Val
        130             135             140

Ile His Ile Tyr Val Asp Lys Asn Ser Ala Gln Gly Asn Val Tyr Val
145             150             155             160

Lys Cys Pro Ser Ile Ala Ala Ala Ile Ala Ala Val Asn Ala Leu His
                165             170             175

Gly Arg Trp Phe Ala Gly Lys Met Ile Thr Ala Ala Tyr Val Pro Leu
                180             185             190

Pro Thr Tyr His Asn Leu Phe Pro Asp Ser Met Thr Ala Thr Gln Leu
            195             200             205

Leu Val Pro Ser Arg Arg
        210
```

```
<210> 5878
<211> 91
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (47)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5878
Asn Cys Ser Pro Ala Phe Tyr Gly Ser Ser Leu Pro Cys Pro Gln Thr
 1               5              10              15

Gln Gln Lys Arg Arg Gly Arg Ile Arg Gly Leu Ser Arg Pro Ala Pro
            20              25              30

Leu Pro Thr Cys His Thr Arg Cys Glu Phe Glu His Ser Pro Xaa Met
            35              40              45

Glu Thr Ser His Pro Gln Leu Asn Asn Gly Pro Phe Met Pro Thr Leu
    50              55              60

Pro Thr Arg Arg Gly Gln Arg Cys Thr Arg Arg Pro Ser Ser Ser Pro
65              70              75              80

Ser Ser Ala Pro Ser His Tyr Ser Trp Phe Tyr
                85              90
```

```
<210> 5879
<211> 52
<212> PRT
<213> Homo sapiens

<400> 5879
Thr Gln Lys Thr Ser Ser Leu Leu Pro Ala Leu Ser Leu Gln Leu Pro
1               5                   10                  15

Leu Leu Thr Arg Phe Ser Ile Met Cys Ser Val Lys Glu Glu Phe Trp
            20                  25                  30

Arg Val Gln Ser Ile Ile Thr Glu Leu Val Leu Lys Gly Glu Phe Gly
            35                  40                  45

Val Lys Arg Gln
        50
```

```
<210> 5880
<211> 43
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (12)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5880
Ala Asp Asp Ser Phe Phe Thr Gly Ile Ala Phe Xaa Thr Ser Ile Ser
1               5                   10                  15

Val Asn Asn Cys Val Cys His Phe Ser Pro Leu Lys Ser Asp Gln Asp
            20                  25                  30

Tyr Ile Leu Lys Glu Gly Asp Leu Val Lys Met
            35                  40
```

```
<210> 5881
<211> 131
<212> PRT
<213> Homo sapiens

<400> 5881
Pro Thr Arg Pro Ala Gln Thr Ala Leu Pro Tyr Ala Met Asn Ser Glu
```

5168

1				5					10					15

Phe Ser Ser Val Leu Ala Ala Gln Leu Lys His His Ser Glu Asn Lys
            20   25   30

Gly Leu Asp Lys Val Met Glu Thr Gln Ala Gln Val Asp Glu Leu Lys
          35   40   45

Gly Ile Met Val Arg Asn Ile Asp Leu Val Ala Gln Arg Gly Glu Arg
          50   55   60

Leu Glu Leu Leu Ile Asp Lys Thr Glu Asn Leu Val Asp Ser Ser Val
65   70   75   80

Thr Phe Lys Thr Thr Ser Arg Asn Leu Ala Arg Ala Met Cys Met Lys
              85   90   95

Asn Leu Lys Leu Thr Ile Ile Ile Ile Ile Val Ser Ile Val Phe Ile
          100   105   110

Tyr Ile Ile Val Ser Pro Leu Cys Gly Gly Phe Thr Trp Pro Ser Cys
          115   120   125

Val Lys Lys
   130

<210> 5882
<211> 226
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (197)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5882
Asn Phe Gly Ile Lys Asp Lys Pro Thr Phe Ile Lys Gly Ile Gly Ala
1   5   10   15

Gly Gly Ser Ile Thr Gly Leu Lys Phe Asn Pro Leu Asn Thr Asn Gln
            20   25   30

Phe Tyr Ala Ser Ser Met Glu Gly Thr Thr Arg Leu Gln Asp Phe Lys
          35   40   45

Gly Asn Ile Leu Arg Val Phe Ala Ser Ser Asp Thr Ile Asn Ile Trp
          50   55   60

5169

```
Phe Cys Ser Leu Asp Val Ser Ala Ser Ser Arg Met Val Val Thr Gly
65              70          75              80

Asp Asn Val Gly Asn Val Ile Leu Leu Asn Met Asp Gly Lys Glu Leu
            85          90              95

Trp Asn Leu Arg Met His Lys Lys Lys Val Thr His Val Ala Leu Asn
        100          105          110

Pro Cys Cys Asp Trp Phe Leu Ala Thr Ala Ser Val Asp Gln Thr Val
        115          120          125

Lys Ile Trp Asp Leu Arg Gln Val Arg Gly Lys Ala Ser Phe Leu Tyr
    130          135          140

Ser Leu Pro His Arg His Pro Val Asn Ala Ala Cys Phe Ser Pro Asp
145          150          155          160

Gly Ala Arg Leu Leu Thr Thr Asp Gln Lys Ser Glu Ile Arg Val Tyr
            165          170          175

Ser Ala Ser Gln Trp Asp Cys Pro Leu Gly Leu Ile Pro His Pro His
        180          185          190

Arg His Phe Gln Xaa Leu Thr Pro Ile Lys Ala Ala Trp Asp Pro Arg
        195          200          205

Tyr Asn Leu Ile Val Val Gly Arg Tyr Pro Asp Pro Asn Phe Lys Ser
    210          215          220

Cys Thr
225
```

```
<210> 5883
<211> 484
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (25)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5883
Trp Leu Leu Arg Ser Pro Gly Lys Leu Thr Ala Arg Glu Arg Ile Ser
1               5               .10              15

Leu Leu Leu Asp Pro Gly Ser Phe Xaa Glu Ser Asp Met Phe Val Glu
            20          25              30
```

5170

```
His Arg Cys Ala Asp Phe Gly Met Ala Ala Asp Lys Asn Lys Phe Pro
        35              40              45

Gly Asp Ser Val Val Thr Gly Arg Gly Arg Ile Asn Gly Arg Leu Val
    50              55              60

Tyr Val Phe Ser Gln Asp Phe Thr Val Phe Gly Gly Ser Leu Ser Gly
65              70              75              80

Ala His Ala Gln Lys Ile Cys Lys Ile Met Asp Gln Ala Ile Thr Val
            85              90              95

Gly Ala Pro Val Ile Gly Leu Asn Asp Ser Gly Gly Ala Arg Ile Gln
            100             105             110

Glu Gly Val Glu Ser Leu Ala Gly Tyr Ala Asp Ile Phe Leu Arg Asn
        115             120             125

Val Thr Ala Ser Gly Val Ile Pro Gln Ile Ser Leu Ile Met Gly Pro
    130             135             140

Cys Ala Gly Gly Ala Val Tyr Ser Pro Ala Leu Thr Asp Phe Thr Phe
145             150             155             160

Met Val Lys Asp Thr Ser Tyr Leu Phe Ile Thr Gly Pro Asp Val Val
            165             170             175

Lys Ser Val Thr Asn Glu Asp Val Thr Gln Glu Glu Leu Gly Gly Ala
        180             185             190

Lys Thr His Thr Thr Met Ser Gly Val Ala His Arg Ala Phe Glu Asn
        195             200             205

Asp Val Asp Ala Leu Cys Asn Leu Arg Asp Phe Phe Asn Tyr Leu Pro
210             215             220

Leu Ser Ser Gln Asp Pro Ala Pro Val Arg Glu Cys His Asp Pro Ser
225             230             235             240

Asp Arg Leu Val Pro Glu Leu Asp Thr Ile Val Pro Leu Glu Ser Thr
            245             250             255

Lys Ala Tyr Asn Met Val Asp Ile Ile His Ser Val Val Asp Glu Arg
            260             265             270

Glu Phe Phe Glu Ile Met Pro Asn Tyr Ala Lys Asn Ile Ile Val Gly
        275             280             285

Phe Ala Arg Met Asn Gly Arg Thr Val Gly Ile Val Gly Asn Gln Pro
290             295             300
```

```
Lys Val Ala Ser Gly Cys Leu Asp Ile Asn Ser Ser Val Lys Gly Ala
305             310         315             320

Arg Phe Val Arg Phe Cys Asp Ala Phe Asn Ile Pro Leu Ile Thr Phe
            325             330             335

Val Asp Val Pro Gly Phe Leu Pro Gly Thr Ala Gln Glu Tyr Gly Gly
            340             345             350

Ile Ile Arg His Gly Ala Lys Leu Leu Tyr Ala Phe Ala Glu Ala Thr
            355             360             365

Val Pro Lys Val Thr Val Ile Thr Arg Lys Ala Tyr Gly Gly Ala Tyr
    370             375             380

Asp Val Met Ser Ser Lys His Leu Cys Gly Asp Thr Asn Tyr Ala Trp
385             390             395             400

Pro Thr Ala Glu Ile Ala Val Met Gly Ala Lys Gly Ala Val Glu Ile
            405             410             415

Ile Phe Lys Gly His Glu Asn Val Glu Ala Ala Gln Ala Glu Tyr Ile
            420             425             430

Glu Lys Phe Ala Asn Pro Phe Pro Ala Ala Val Arg Gly Phe Val Asp
    435             440             445

Asp Ile Ile Gln Pro Ser Ser Thr Arg Ala Arg Ile Cys Cys Asp Leu
    450             455             460

Asp Val Leu Ala Ser Lys Lys Val Gln Arg Pro Trp Arg Lys His Ala
465             470             475             480

Asn Ile Pro Leu
```

```
<210> 5884
<211> 344
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (56)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
```

5172

<222> (62)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (110)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (325)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (327)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5884

```
Asn Lys Met Lys Ile Phe Ser Glu Ser His Lys Thr Val Phe Val Val
 1               5                  10                  15

Asp His Cys Pro Tyr Met Ala Glu Ser Cys Arg Gln His Val Glu Phe
            20                  25                  30

Asp Met Leu Val Lys Asn Arg Thr Gln Gly Ile Ile Pro Leu Ala Pro
        35                  40                  45

Ile Ser Lys Ser Leu Trp Thr Xaa Ser Val Glu Ser Ser Xaa Glu Tyr
    50                  55                  60

Cys Arg Ile Met Tyr Asp Ile Phe Pro Phe Lys Lys Leu Val Asn Phe
65                  70                  75                  80

Ile Val Ser Asp Ser Gly Ala His Val Leu Asn Ser Trp Thr Gln Glu
            85                  90                  95

Asp Gln Asn Leu Gln Glu Leu Met Ala Ala Leu Ala Ala Xaa Gly Pro
            100                 105                 110

Pro Asn Pro Arg Ala Asp Pro Glu Cys Cys Ser Ile Leu His Gly Leu
            115                 120                 125

Val Ala Ala Val Glu Thr Leu Cys Lys Ile Thr Glu Tyr Gln His Glu
    130                 135                 140

Ala Arg Thr Leu Leu Met Glu Asn Ala Glu Arg Val Gly Asn Arg Gly
145                 150                 155                 160

Arg Ile Ile Cys Ile Thr Asn Ala Lys Ser Asp Ser His Val Arg Met
            165                 170                 175
```

5173

```
Leu Glu Asp Cys Val Gln Glu Thr Ile His Glu His Asn Lys Leu Ala
            180             185             190

Ala Asn Ser Asp His Leu Met Gln Ile Gln Lys Cys Glu Leu Val Leu
            195             200             205

Ile His Thr Tyr Pro Val Gly Glu Asp Ser Leu Val Ser Asp Arg Ser
    210             215             220

Lys Lys Glu Leu Ser Pro Val Leu Thr Ser Glu Val His Ser Val Arg
225             230             235             240

Ala Gly Arg His Leu Ala Thr Lys Leu Asn Ile Leu Val Gln Gln His
            245             250             255

Phe Asp Leu Ala Ser Thr Thr Ile Thr Asn Ile Pro Met Lys Glu Glu
            260             265             270

Gln His Ala Asn Thr Ser Ala Asn Tyr Asp Val Glu Leu Leu His His
            275             280             285

Lys Asp Ala His Val Asp Phe Leu Lys Ser Gly Asp Ser His Leu Gly
            290             295             300

Gly Gly Ser Arg Glu Gly Ser Phe Lys Glu Thr Ile Thr Leu Lys Trp
305             310             315             320

Cys Thr Pro Arg Xaa Lys Xaa Thr Leu Cys Phe Leu Leu Phe Gln Glu
            325             330             335

Leu His Tyr Cys Thr Gly Ala Leu
            340
```

```
<210> 5885
<211> 365
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (155)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (171)
<223> Xaa equals any of the naturally occurring L-amino acids
```

5174

<220>
<221> SITE
<222> (192)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5885
Pro Glu His Ser Trp Ser Ser Ser Ser Ser Thr Lys Arg Trp Thr Glu
 1   5   10   15

Lys Thr Ala Glu Thr Met Gly Pro Pro Ser Ala Pro Pro Cys Arg Leu
             20   25   30

His Val Pro Trp Lys Glu Val Leu Leu Thr Ala Ser Leu Leu Thr Phe
             35   40   45

Trp Asn Pro Pro Thr Thr Ala Lys Leu Thr Ile Glu Ser Thr Pro Phe
         50   55   60

Asn Val Ala Glu Gly Lys Glu Val Leu Leu Leu Ala His Asn Leu Pro
 65   70   75   80

Gln Asn Arg Ile Gly Tyr Ser Trp Tyr Lys Gly Glu Arg Val Asp Gly
                 85   90   95

Asn Ser Leu Ile Val Gly Tyr Val Ile Gly Thr Gln Gln Ala Thr Pro
             100   105   110

Gly Pro Ala Tyr Ser Gly Arg Glu Thr Ile Tyr Pro Asn Ala Ser Leu
         115   120   125

Leu Ile Gln Asn Val Thr Gln Asn Asp Thr Gly Phe Tyr Thr Leu Gln
     130   135   140

Val Ile Lys Ser Asp Leu Val Asn Glu Glu Xaa Thr Gly Gln Phe His
145   150   155   160

Val Tyr Pro Glu Leu Pro Lys Pro Ser Ile Xaa Ser Asn Asn Ser Asn
                 165   170   175

Pro Val Glu Asp Lys Asp Ala Val Ala Phe Thr Cys Glu Pro Glu Xaa
             180   185   190

Gln Asn Thr Thr Tyr Leu Trp Trp Val Asn Gly Gln Ser Leu Pro Val
         195   200   205

Ser Pro Arg Leu Gln Leu Ser Asn Gly Asn Met Thr Leu Thr Leu Leu
     210   215   220

Ser Val Lys Arg Asn Asp Ala Gly Ser Tyr Glu Cys Glu Ile Gln Asn
225   230   235   240

5175

```
Pro Ala Ser Ala Asn Arg Ser Asp Pro Val Thr Leu Asn Val Leu Tyr
            245             250             255

Gly Pro Asp Gly Pro Thr Ile Ser Pro Ser Lys Ala Asn Tyr Arg Pro
            260             265             270

Gly Glu Asn Leu Asn Leu Ser Cys His Ala Ala Ser Asn Pro Pro Ala
            275             280             285

Gln Tyr Ser Trp Phe Ile Asn Gly Thr Phe Gln Gln Ser Thr Gln Glu
            290             295             300

Leu Phe Ile Pro Asn Ile Thr Val Asn Asn Ser Gly Ser Tyr Met Cys
305             310             315             320

Gln Ala His Asn Ser Ala Thr Gly Leu Asn Arg Thr Thr Val Thr Met
            325             330             335

Ile Thr Val Ser Gly Ser Ala Pro Val Leu Ser Ala Val Ala Thr Val
            340             345             350

Gly Ile Thr Ile Gly Val Leu Ala Arg Val Ala Leu Ile
            355             360             365
```

```
<210> 5886
<211> 93
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (13)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (16)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5886
Asp Pro Val Ser Glu Glu Gly Glu Gly Leu Ser Cys Xaa Asp Gln Xaa
 1           5               10              15

His Arg Asp Pro Leu Gly Arg Gly Ala Gly Arg Ala Lys Lys Arg Thr
            20              25              30

Cys Lys Gly Arg Arg Arg Asn Pro Asp Ala Ala Ser Glu Val Gln Ala
            35              40              45
```

5176

```
His Leu Val Asn Met His Cys His Glu Phe Leu Pro Asp Val Leu Leu
    50              55              60

Phe Ser Phe Thr Tyr Ser Phe Asp Gln Ile Val Cys Gly Leu Asn Lys
65              70              75              80

Met Lys Ile Ser Ser Pro Leu Phe Leu Gly Asn Thr Leu
                85              90
```

<210> 5887
<211> 82
<212> PRT
<213> Homo sapiens

<400> 5887
```
Leu Cys Glu Lys Trp Ala Gln Trp Pro Ser Pro Glu Ile Ser Phe Ile
1               5               10              15

Leu Gly Gln Glu Phe Asp Glu Val Thr Ala Asp Asp Arg Lys Val Lys
            20              25              30

Ser Thr Ile Thr Leu Asp Gly Gly Val Leu Val His Val Gln Lys Trp
        35              40              45

Asp Gly Lys Ser Thr Thr Ile Lys Arg Lys Arg Glu Asp Asp Lys Leu
    50              55              60

Val Val Glu Cys Val Met Lys Gly Val Thr Ser Thr Arg Val Tyr Glu
65              70              75              80

Arg Ala
```

<210> 5888
<211> 102
<212> PRT
<213> Homo sapiens

<400> 5888
```
Asp Leu His Ser Gln Trp Gly Thr Trp Pro Pro Ile Leu Gly Asp Leu
1               5               10              15

Arg Lys Arg Thr Ser Pro Trp Gly Glu Gly Trp Val Gly Pro Glu Gly
            20              25              30

Pro Val Pro Ser Ser Val Leu Arg Gly Arg Ala Thr Cys Ser Asn Gly
        35              40              45
```

5177

```
Ile Cys Ile Leu Ala Pro Leu His Leu Leu Ser Pro Ala Glu Ser Phe
    50                  55              60

Pro Ser Lys Pro Lys Ser Cys His Cys Phe Phe Leu Pro Gly Lys Asn
65              70              75                  80

Ala Trp Thr Leu Pro Gly Asp Arg Leu Lys Pro Glu Gln Cys His Thr
            85              90              95

Leu Ala Leu Ile Pro Cys
            100
```

```
<210> 5889
<211> 51
<212> PRT
<213> Homo sapiens

<400> 5889
Tyr Pro Leu Phe Thr Ile Met Leu Phe Glu Thr Lys Val Thr Met Tyr
1               5               10              15

Thr Ile Leu Leu Glu Glu Val Phe Asp Arg Lys Ser Asn Ile Met Ser
            20              25              30

Phe Ile Asn Phe Leu Val Leu Lys Lys Ala Val Ile Tyr Ile Tyr Lys
            35              40              45

Leu Cys Lys
        50
```

```
<210> 5890
<211> 239
<212> PRT
<213> Homo sapiens

<400> 5890
Glu Tyr Gly Ser Pro Ser Val Ile Ser Val Ser Lys Gly Ser Pro Asp
1               5               10              15

Gly Ser His Pro Val Val Val Ala Pro Tyr Asn Gly Gly Pro Pro Arg
            20              25              30

Thr Cys Pro Lys Ile Lys Gln Glu Ala Val Ser Ser Cys Thr His Leu
            35              40              45

Gly Ala Gly Pro Pro Leu Ser Asn Gly His Arg Pro Ala Ala His Asp
```

5178

```
        50                      55                      60

Phe Pro Leu Gly Arg Gln Leu Pro Ser Arg Thr Thr Pro Thr Leu Gly
 65              70              75              80

Leu Glu Glu Val Leu Ser Ser Arg Asp Cys His Pro Ala Leu Pro Leu
             85              90              95

Pro Pro Gly Phe His Pro His Pro Gly Pro Asn Tyr Pro Ser Phe Leu
            100             105             110

Pro Asp Gln Met Gln Pro Gln Val Pro Pro Leu His Tyr Gln Glu Leu
            115             120             125

Met Pro Pro Gly Ser Cys Met Pro Glu Glu Pro Lys Pro Lys Arg Gly
    130             135             140

Arg Arg Ser Trp Pro Arg Lys Arg Thr Ala Thr His Thr Cys Asp Tyr
145             150             155             160

Ala Gly Cys Gly Lys Thr Tyr Thr Lys Ser Ser His Leu Lys Ala His
            165             170             175

Leu Arg Thr His Thr Gly Glu Lys Pro Tyr His Cys Asp Trp Asp Gly
            180             185             190

Cys Gly Trp Lys Phe Ala Arg Ser Asp Glu Leu Thr Arg His Tyr Arg
            195             200             205

Lys His Thr Gly His Arg Pro Phe Gln Cys Gln Lys Cys Asp Arg Ala
    210             215             220

Phe Ser Arg Ser Asp His Leu Ala Leu His Met Lys Arg His Phe
225             230             235
```

```
<210> 5891
<211> 269
<212> PRT
<213> Homo sapiens

<400> 5891
Leu Val Pro Asn Ser Ala Arg Val Gly Thr Arg Ser Lys Gly Val Cys
 1               5              10              15

Val His Gly Asn Ala Glu Tyr Gln Pro Gly Ser Pro Val Tyr Ser Ser
            20              25              30

Lys Cys Gln Asp Cys Val Cys Thr Asp Lys Val Asp Asn Asn Thr Leu
    35              40              45
```

5179

```
Leu Asn Val Ile Ala Cys Thr His Val Pro Cys Asn Thr Ser Cys Ser
    50              55          60

Pro Gly Phe Glu Leu Met Glu Ala Pro Gly Glu Cys Cys Lys Lys Cys
65              70          75              80

Glu Gln Thr His Cys Ile Ile Lys Arg Pro Asp Asn Gln His Val Ile
            85          90              95

Leu Lys Pro Gly Asp Phe Lys Ser Asp Pro Lys Asn Asn Cys Thr Phe
            100         105         110

Phe Ser Cys Val Lys Ile His Asn Gln Leu Ile Ser Ser Val Ser Asn
        115         120         125

Ile Thr Cys Pro Asn Phe Asp Ala Ser Ile Cys Ile Pro Gly Ser Ile
    130         135         140

Thr Phe Met Pro Asn Gly Cys Cys Lys Thr Cys Thr Pro Arg Asn Glu
145             150         155             160

Thr Arg Val Pro Cys Ser Thr Val Pro Val Thr Thr Glu Val Ser Tyr
            165         170         175

Ala Gly Cys Thr Lys Thr Val Leu Met Asn His Cys Ser Gly Ser Cys
        180         185         190

Gly Thr Phe Val Met Tyr Ser Ala Lys Ala Gln Ala Leu Asp His Ser
    195         200         205

Cys Ser Cys Cys Lys Glu Glu Lys Thr Ser Gln Arg Glu Val Val Leu
    210         215         220

Ser Cys Pro Asn Gly Gly Ser Leu Thr His Thr Tyr Thr His Ile Glu
225         230         235             240

Ser Cys Gln Cys Gln Asp Thr Val Cys Gly Leu Pro Thr Gly Thr Ser
            245             250         255

Arg Arg Ala Arg Arg Ser Pro Arg His Leu Gly Ser Gly
        260         265
```

```
<210> 5892
<211> 227
<212> PRT
<213> Homo sapiens

<220>
```

5180

<221> SITE
<222> (29)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5892
Ala Cys His Glu Lys Val Val Asn Ile Gln Lys Asp Pro Gly Glu Ser
 1   5   10   15

Leu Gly Met Thr Val Ala Gly Gly Ala Ser His Arg Xaa Trp Asp Leu
            20   25   30

Pro Ile Tyr Val Ile Ser Val Glu Pro Gly Gly Val Ile Ser Arg Asp
            35   40   45

Gly Arg Ile Lys Thr Gly Asp Ile Leu Leu Asn Val Asp Gly Val Glu
        50   55   60

Leu Thr Glu Val Ser Arg Ser Glu Ala Val Ala Leu Leu Lys Arg Thr
65   70   75   80

Ser Ser Ser Ile Val Leu Lys Ala Leu Glu Val Lys Glu Tyr Glu Pro
                85   90   95

Gln Glu Asp Cys Ser Ser Pro Ala Ala Leu Asp Ser Asn His Asn Met
            100   105   110

Ala Pro Pro Ser Asp Trp Ser Pro Ser Trp Val Met Trp Leu Glu Leu
        115   120   125

Pro Arg Cys Leu Tyr Asn Cys Lys Asp Ile Val Leu Arg Arg Asn Thr
        130   135   140

Ala Gly Ser Leu Gly Phe Cys Ile Val Gly Gly Tyr Glu Glu Tyr Asn
145   150   155   160

Gly Asn Lys Pro Phe Phe Ile Lys Ser Ile Val Glu Gly Thr Pro Ala
                165   170   175

Tyr Asn Asp Gly Arg Ile Arg Cys Gly Asp Ile Leu Leu Ala Val Asn
            180   185   190

Gly Arg Ser Thr Ser Gly Met Ile His Ala Cys Leu Ala Arg Leu Leu
            195   200   205

Lys Glu Leu Lys Gly Arg Ile Thr Leu Thr Ile Val Ser Trp Pro Gly
    210   215   220

Thr Phe Leu
225

```
<210> 5893
<211> 88
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (10)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5893
Ser Ser His Phe Tyr Ala Lys Gln Glu Xaa Ser Ile Thr Leu Val Leu
  1               5                  10                  15

Met Tyr Thr Leu His Phe Asp Lys Ile Asn Phe Val Val Ser Phe Glu
             20              25              30

Val Asp Arg Cys Val Val Val Leu Leu His Phe Leu Leu Phe Cys Val
         35              40                  45

Trp Ser Cys Ile Pro Glu Thr Asn Glu Ala Leu Gly Tyr Phe Ile Lys
    50              55              60

Cys Ser Asp Cys Gln Gln Arg Ala Gly Phe Leu Phe Leu Cys Cys Gly
65              70              75              80

Val Asn Arg Thr Met Val Trp Glu
                85
```

```
<210> 5894
<211> 571
<212> PRT
<213> Homo sapiens

<400> 5894
Arg Val Arg Ser Lys Val Pro Arg Cys Val Asn Thr Gln Pro Gly Phe
  1               5                  10                  15

His Cys Leu Pro Cys Pro Pro Arg Tyr Arg Gly Asn Gln Pro Val Gly
             20              25              30

Val Gly Leu Glu Ala Ala Lys Thr Glu Lys Gln Val Cys Glu Pro Glu
             35              40                  45

Asn Pro Cys Lys Asp Lys Thr His Asn Cys His Lys His Ala Glu Cys
    50              55              60

Ile Tyr Leu Gly His Phe Ser Asp Pro Met Tyr Lys Cys Glu Cys Gln
```

5182

65   70   75   80

Thr Gly Tyr Ala Gly Asp Gly Leu Ile Cys Gly Glu Asp Ser Asp Leu
              85   90   95

Asp Gly Trp Pro Asn Leu Asn Leu Val Cys Ala Thr Asn Ala Thr Tyr
              100   105   110

His Cys Ile Lys Asp Asn Cys Pro His Leu Pro Asn Ser Gly Gln Glu
              115   120   125

Asp Phe Asp Lys Asp Gly Ile Gly Asp Ala Cys Asp Asp Asp Asp
        130   135   140

Asn Asp Gly Val Thr Asp Glu Lys Asp Asn Cys Gln Leu Leu Phe Asn
145   150   155   160

Pro Arg Gln Ala Asp Tyr Asp Lys Asp Glu Val Gly Asp Arg Cys Asp
              165   170   175

Asn Cys Pro Tyr Val His Asn Pro Ala Gln Ile Asp Thr Asp Asn Asn
              180   185   190

Gly Glu Gly Asp Ala Cys Ser Val Asp Ile Asp Gly Asp Asp Val Phe
        195   200   205

Asn Glu Arg Asp Asn Cys Pro Tyr Val Tyr Asn Thr Asp Gln Arg Asp
        210   215   220

Thr Asp Gly Asp Gly Val Gly Asp His Cys Asp Asn Cys Pro Leu Val
225   230   235   240

His Asn Pro Asp Gln Thr Asp Val Asp Asn Asp Leu Val Gly Asp Gln
              245   250   255

Cys Asp Asn Asn Glu Asp Ile Asp Asp Asp Gly His Gln Asn Asn Gln
              260   265   270

Asp Asn Cys Pro Tyr Ile Ser Asn Ala Asn Gln Ala Asp His Asp Arg
        275   280   285

Asp Gly Gln Gly Asp Ala Cys Asp Pro Asp Asp Asp Asn Asp Gly Val
        290   295   300

Pro Asp Asp Arg Asp Asn Cys Arg Leu Val Phe Asn Pro Asp Gln Glu
305   310   315   320

Asp Leu Asp Gly Asp Gly Arg Gly Asp Ile Cys Lys Asp Asp Phe Asp
              325   330   335

Asn Asp Asn Ile Pro Asp Ile Asp Asp Val Cys Pro Glu Asn Asn Ala

5183

```
              340                   345                   350

Ile Ser Glu Thr Asp Phe Arg Asn Phe Gln Met Val Pro Leu Asp Pro
        355                   360                   365

Lys Gly Thr Thr Gln Ile Asp Pro Asn Trp Val Ile Arg His Gln Gly
    370                   375                   380

Lys Glu Leu Val Gln Thr Ala Asn Ser Asp Pro Gly Ile Ala Val Gly
385                   390                   395                   400

Phe Asp Glu Phe Gly Ser Val Asp Phe Ser Gly Thr Phe Tyr Val Asn
                405                   410                   415

Thr Asp Arg Asp Asp Asp Tyr Ala Gly Phe Val Phe Gly Tyr Gln Ser
            420                   425                   430

Ser Ser Arg Phe Tyr Val Val Met Trp Lys Gln Val Thr Gln Thr Tyr
            435                   440                   445

Trp Glu Asp Gln Pro Thr Arg Ala Tyr Gly Tyr Ser Gly Val Ser Leu
    450                   455                   460

Lys Val Val Asn Ser Thr Thr Gly Thr Gly Glu His Leu Arg Asn Ala
465                   470                   475                   480

Leu Trp His Thr Gly Asn Thr Pro Gly Gln Val Arg Thr Leu Trp His
                485                   490                   495

Asp Pro Arg Asn Ile Gly Trp Lys Asp Tyr Thr Ala Tyr Arg Trp His
            500                   505                   510

Leu Thr His Arg Pro Lys Thr Gly Tyr Ile Arg Val Leu Val His Glu
            515                   520                   525

Gly Lys Gln Val Met Ala Asp Ser Gly Pro Ile Tyr Asp Gln Thr Tyr
    530                   535                   540

Ala Gly Gly Arg Leu Gly Leu Phe Val Phe Ser Gln Glu Met Val Tyr
545                   550                   555                   560

Phe Ser Asp Leu Lys Tyr Glu Cys Arg Asp Ile
                565                   570
```

<210> 5895
<211> 59
<212> PRT
<213> Homo sapiens

5184

<400> 5895
Asn Phe Leu Asn Glu Met Ile Asn Arg Trp Asn Leu Lys Tyr Ile Leu
1   5   10   15

Leu Gln Lys Arg Phe Leu Ser Leu Leu Tyr Phe Asp Asp Cys Phe Leu
            20   25   30

Lys Ile Lys Ile Cys Ser Cys Ser Phe Ile Arg Leu Phe Lys Leu Cys
            35   40   45

Phe Pro Leu Ile Phe Phe His His Cys Ile Tyr
        50   55

<210> 5896
<211> 176
<212> PRT
<213> Homo sapiens

<400> 5896
Arg Pro Thr Arg Pro Ser Arg Asp Cys Glu Gly Glu Arg Ser Lys Pro
1   5   10   15

Arg Arg Arg Trp Lys Gly Trp Arg Thr His Leu Asn Met Trp Asn Pro
            20   25   30

Asn Ala Gly Gln Pro Gly Pro Asn Pro Tyr Pro Pro Asn Ile Gly Cys
            35   40   45

Pro Gly Gly Ser Asn Pro Ala His Pro Pro Pro Ile Asn Pro Pro Phe
        50   55   60

Pro Pro Gly Pro Cys Pro Pro Pro Gly Ala Pro His Gly Asn Pro
65   70   75   80

Ala Phe Pro Pro Gly Gly Pro Pro His Pro Val Pro Gln Pro Gly Tyr
                85   90   95

Pro Gly Cys Gln Pro Leu Gly Pro Tyr Pro Pro Pro Tyr Pro Pro Pro
            100   105   110

Ala Pro Gly Ile Pro Pro Val Asn Pro Leu Ala Pro Gly Met Val Gly
            115   120   125

Pro Ala Val Ile Val Asp Lys Lys Met Gln Lys Lys Met Lys Lys Ala
        130   135   140

His Lys Lys Met His Lys His Gln Lys His His Lys Tyr His Lys His
145   150   155   160

5185

```
Gly Lys His Ser Ser Ser Ser Ser Ser Ser Ser Ser Asp Ser Asp
              165                 170             175
```

<210> 5897
<211> 205
<212> PRT
<213> Homo sapiens

<400> 5897

```
Leu Gly Gly Cys Arg Asp Val Pro Ser Leu Thr Leu Leu Ser Thr Val
  1           5             10            15

Ala Gly Ala Leu Ile Ala Asp Phe Leu Ser Gly Leu Val His Trp Gly
              20            25            30

Ala Asp Thr Trp Gly Ser Val Glu Leu Pro Ile Val Gly Lys Ala Phe
          35            40            45

Ile Arg Pro Phe Arg Glu His His Ile Asp Pro Thr Ala Ile Thr Arg
      50            55            60

His Asp Phe Ile Glu Thr Asn Gly Asp Asn Cys Leu Val Thr Leu Leu
 65            70            75            80

Pro Leu Leu Asn Met Ala Tyr Lys Phe Arg Thr His Ser Pro Glu Ala
              85            90              95

Leu Glu Gln Leu Tyr Pro Trp Glu Cys Phe Val Phe Cys Leu Ile Ile
              100           105           110

Phe Gly Thr Phe Thr Asn Gln Ile His Lys Trp Ser His Thr Tyr Phe
          115           120           125

Gly Leu Pro Arg Trp Val Thr Leu Leu Gln Asp Trp His Val Ile Leu
      130           135           140

Pro Arg Lys His His Arg Ile His His Val Ser Pro His Glu Thr Tyr
145           150           155           160

Phe Cys Ile Thr Thr Gly Trp Leu Asn Tyr Pro Leu Glu Lys Ile Gly
              165           170           175

Phe Trp Arg Arg Leu Glu Asp Leu Ile Gln Gly Leu Thr Gly Glu Lys
          180           185           190

Pro Arg Ala Asp Asp Met Lys Trp Ala Gln Lys Ile Lys
```

5186

195   200   205

```
<210> 5898
<211> 96
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (84)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (85)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5898
Lys Trp Leu Leu Val Asn Phe Asp Cys Ser Ala Met Trp Val Lys Lys
 1               5                  10                  15

Arg Thr Asp Leu Thr Gly Ala Phe Arg Leu Asp Pro Thr Tyr Leu Lys
            20              25                  30

His Ser His Gln Asp Ser Gly Leu Ile Thr Asp Tyr Arg His Trp Gln
        35              40                  45

Ile Pro Leu Gly Arg Arg Phe Arg Ser Leu Lys Met Trp Phe Val Phe
    50              55                  60

Arg Met Tyr Gly Val Lys Gly Leu Gln Ala Tyr Ile Arg Lys His Val
65              70              75                  80

Gln Leu Ser Xaa Xaa Phe Glu Ser Leu Val Arg Gln Gly Ser Pro Leu
            85                  90                  95
```

```
<210> 5899
<211> 98
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (2)
```

5187

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5899
Leu Xaa His Pro Phe Ala Val Thr Ser Tyr Gly Lys Asn Leu Tyr Phe
 1   5   10   15

Thr Asp Trp Lys Met Asn Ser Val Val Ala Leu Asp Leu Ala Ile Ser
               20   25   30

Lys Glu Thr Asp Ala Phe Gln Pro His Lys Gln Thr Arg Leu Tyr Gly
           35   40   45

Ile Thr Thr Ala Leu Ser Gln Cys Pro Gln Gly His Asn Tyr Cys Ser
       50   55   60

Val Asn Asn Gly Gly Cys Thr His Leu Cys Leu Ala Thr Pro Gly Ser
65   70   75   80

Arg Thr Cys Arg Cys Pro Asp Asn Thr Leu Gly Val Asp Cys Ile Glu
               85   90   95

Gln Lys

<210> 5900
<211> 48
<212> PRT
<213> Homo sapiens

<400> 5900
Glu Ile Ser Ala Phe Leu Ile Ser Ser Asn Tyr Lys Arg Thr Ala Val
 1   5   10   15

Phe Phe His Thr His Leu Pro Glu Gly Arg Ile Gly Ser His Ile Tyr
               20   25   30

Val Tyr Glu Arg Lys Leu Lys Gly Lys Phe Asn Met Lys Met Lys Phe
           35   40   45

<210> 5901
<211> 87
<212> PRT
<213> Homo sapiens

5188

```
<220>
<221> SITE
<222> (10)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (36)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (47)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5901
Ser Ser Leu Gly Lys Leu Asp His Gln Xaa Phe Ser Leu Asp Arg Val
1               5               10              15

Ser Leu Val Asn Lys Gly Asp Thr Gly Asn Pro Glu Trp Thr Val Ile
            20              25              30

Cys Val Gly Xaa His Ser Gly Ser Gly Ala Ser Asp Thr Leu Xaa Pro
            35              40              45

Lys Thr Ala Pro Ser Phe Arg Leu Ala Tyr Glu Met Met Phe Met Cys
    50              55              60

Phe Leu Glu Thr Arg Trp Lys Glu Arg Gly Arg Ile Asn Phe Leu Ile
65              70              75              80

Leu Leu Leu Leu Asn Val Met
                85
```

```
<210> 5902
<211> 83
<212> PRT
<213> Homo sapiens

<400> 5902
Leu Asn Trp Leu Leu Gln Gly Glu Gly Gln Lys Ala Arg Pro Ser Ala
1               5               10              15

Leu Glu Ser Arg Pro Glu Val Ser Gly Lys Leu Thr Leu Lys Met Asp
            20              25              30

Thr Pro Gln Pro Ala Leu Pro Phe Gly Leu Pro Arg Ile Ser Phe Ser
            35              40              45
```

5189

```
Gly Cys Ser His Thr Cys Ala Ile Thr Ser Ser Ser Met Thr Trp Thr
    50              55              60

Gly Thr Ser Leu Thr Ile Pro Ile Gly Ile Thr Arg Ala Thr Asn Tyr
    65              70              75              80

Ala Val Phe
```

```
<210> 5903
<211> 269
<212> PRT
<213> Homo sapiens

<400> 5903
Arg Arg Cys Cys His Ser Ala Thr Met Phe Glu Ala Arg Leu Val Gln
    1           5               10              15

Gly Ser Ile Leu Lys Lys Val Leu Glu Ala Leu Lys Asp Leu Ile Asn
                20              25              30

Glu Ala Cys Trp Asp Ile Ser Ser Ser Gly Val Asn Leu Gln Ser Met
            35              40              45

Asp Ser Ser His Val Ser Leu Val Gln Leu Thr Leu Arg Ser Glu Gly
    50              55              60

Phe Asp Thr Tyr Arg Cys Asp Arg Asn Leu Ala Met Gly Val Asn Leu
    65              70              75              80

Thr Ser Met Ser Lys Ile Leu Lys Cys Ala Gly Asn Glu Asp Ile Ile
                85              90              95

Thr Leu Arg Ala Glu Asp Asn Ala Asp Thr Leu Ala Leu Val Phe Glu
            100             105             110

Ala Pro Asn Gln Glu Lys Val Ser Asp Tyr Glu Met Lys Leu Met Asp
            115             120             125

Leu Asp Val Glu Gln Leu Gly Ile Pro Glu Gln Glu Tyr Ser Cys Val
    130             135             140

Val Lys Met Pro Ser Gly Glu Phe Ala Arg Ile Cys Arg Asp Leu Ser
145             150             155             160

His Ile Gly Asp Ala Val Val Ile Ser Cys Ala Lys Asp Gly Val Lys
                165             170             175

Phe Ser Ala Ser Gly Glu Leu Gly Asn Gly Asn Ile Lys Leu Ser Gln
```

5190

```
                180                    185                    190
Thr Ser Asn Val Asp Lys Glu Glu Glu Ala Val Thr Ile Glu Met Asn
        195                    200                    205
Glu Pro Val Gln Leu Thr Phe Ala Leu Arg Tyr Leu Asn Phe Phe Thr
        210                    215                    220
Lys Ala Thr Pro Leu Ser Ser Thr Val Thr Leu Ser Met Ser Ala Asp
225                    230                    235                    240
Val Pro Leu Val Val Glu Tyr Lys Ile Ala Asp Met Gly His Leu Lys
                   245                    250                    255
Tyr Tyr Leu Ala Pro Lys Ile Glu Asp Glu Glu Gly Ser
            260                    265
```

<210> 5904
<211> 211
<212> PRT
<213> Homo sapiens

<400> 5904
```
Asn Lys Met Lys Lys Val Arg Leu Lys Glu Leu Glu Ser Arg Leu Gln
   1               5                   10                  15
Gln Val Asp Gly Phe Glu Lys Pro Lys Leu Leu Leu Glu Gln Tyr Pro
                20                  25                  30
Thr Arg Pro His Ile Ala Ala Cys Met Leu Tyr Thr Ile His Asn Thr
            35                  40                  45
Tyr Asp Asp Ile Glu Asn Lys Val Val Ala Asp Leu Gly Cys Gly Cys
        50                  55                  60
Gly Val Leu Ser Ile Gly Thr Ala Met Leu Gly Ala Gly Leu Cys Val
65                  70                  75                  80
Gly Phe Asp Ile Asp Glu Asp Ala Leu Glu Ile Phe Asn Arg Asn Ala
                85                  90                  95
Glu Glu Phe Glu Leu Thr Asn Ile Asp Met Val Gln Cys Asp Val Cys
            100                 105                 110
Leu Leu Ser Asn Arg Met Ser Lys Ser Phe Asp Thr Val Ile Met Asn
        115                 120                 125
Pro Pro Phe Gly Thr Lys Asn Asn Lys Gly Thr Asp Met Ala Phe Leu
        130                 135                 140
```

5191

Lys Thr Ala Leu Glu Met Ala Arg Thr Ala Val Tyr Ser Leu His Lys
145   150   155   160

Ser Ser Thr Arg Glu His Val Gln Lys Lys Ala Ala Glu Trp Lys Ile
              165   170   175

Lys Ile Asp Ile Ile Ala Glu Leu Arg Tyr Asp Leu Pro Ala Ser Tyr
              180   185   190

Lys Phe His Lys Lys Lys Ser Val Asp Ile Glu Val Asp Leu Ile Arg
              195   200   205

Phe Ser Phe
    210

<210> 5905
<211> 77
<212> PRT
<213> Homo sapiens

<400> 5905
Lys Phe Leu Leu Lys Val Asn Phe Pro Glu Asn Gly Phe Leu Ser Pro
  1   5   10   15

Asp Lys Leu Ser Leu Leu Glu Lys Leu Leu Pro Glu Arg Lys Glu Val
              20   25   30

Glu Glu Thr Asp Glu Met Asp Gln Val Glu Leu Val Asp Phe Asp Pro
              35   40   45

Asn Gln Glu Arg Arg Arg His Tyr Asn Gly Glu Ala Tyr Glu Asp Asp
        50   55   60

Glu His His Pro Arg Gly Gly Val Gln Cys Gln Thr Ser
65   70   75

<210> 5906
<211> 142
<212> PRT
<213> Homo sapiens

<400> 5906
Ser Trp Glu Thr Glu Lys Met Gln Thr Ala Gly Ala Leu Phe Ile Ser
  1   5   10   15

Pro Ala Leu Ile Arg Cys Cys Thr Arg Gly Leu Ile Arg Pro Val Ser

5192

```
               20                    25                    30
Ala Ser Phe Leu Asn Ser Pro Val Asn Ser Ser Lys Gln Pro Ser Tyr
        35                    40                    45

Ser Asn Phe Pro Leu Gln Val Ala Arg Arg Glu Phe Gln Thr Ser Val
        50                    55                    60

Val Ser Arg Asp Ile Asp Thr Ala Ala Lys Phe Ile Gly Ala Gly Ala
65                    70                    75                    80

Ala Thr Val Gly Val Ala Gly Ser Gly Ala Gly Ile Gly Thr Val Phe
                85                    90                    95

Gly Ser Leu Ile Ile Gly Tyr Ala Arg Asn Pro Ser Leu Lys Gln Gln
            100                   105                   110

Leu Phe Ser Tyr Ala Ile Leu Gly Phe Ala Leu Ser Glu Ala Met Gly
            115                   120                   125

Leu Phe Cys Leu Met Val Ala Phe Leu Ile Leu Phe Ala Met
        130                   135                   140
```

<210> 5907
<211> 63
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (36)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5907
```
Thr Cys Pro Phe Leu Gln Glu Phe Ser Leu Gly Met Trp Ser Cys Leu
 1               5                  10                  15

His Ala Val Leu Glu Leu Ile Asp Ser Gln Gln Gln Asp Arg Tyr Trp
                20                  25                  30

Cys Pro Pro Xaa Leu His Arg Ala Ala Ile Ala Phe Leu His Ala Leu
            35                  40                  45

Trp Gln Asp Arg Arg Asp Ser Ala Met Leu Val Leu Arg Thr Lys
        50                  55                  60
```

<210> 5908

5193

<211> 61
<212> PRT
<213> Homo sapiens

<400> 5908
Arg Asn Lys Gly Val Arg Ala Asn Ile Gln Gln Leu Leu Ser Pro Val
  1   5   10   15

Met Lys Phe Ile Gln Thr Lys Asp Gly Met Ser Leu Tyr Ile Ile Pro
              20   25   30

Cys Asn Lys Tyr Ser Val Lys Leu Cys Trp Cys Asn Leu Thr Cys Phe
              35   40   45

Cys Gln Ser Lys Lys Lys Lys Lys Lys Lys Lys Lys
              50   55   60

<210> 5909
<211> 466
<212> PRT
<213> Homo sapiens

<400> 5909
Val Ser Pro Arg Ala Gly Gly Ala Gly Asn Asn Arg Gly Arg Ala His
  1   5   10   15

Arg Ala Ser Ser Cys Ser Leu Pro Ala Pro Pro Ala Thr Leu Asp Pro
              20   25   30

Arg Ile Pro Pro Ala Arg Leu Pro Ala Met Ala Asp Lys Glu Ala Ala
              35   40   45

Phe Asp Asp Ala Val Glu Glu Arg Val Ile Asn Glu Glu Tyr Lys Ile
      50   55   60

Trp Lys Lys Asn Thr Pro Phe Leu Tyr Asp Leu Val Met Thr His Ala
 65   70   75   80

Leu Glu Trp Pro Ser Leu Thr Ala Gln Trp Leu Pro Asp Val Thr Arg
                  85   90   95

Pro Glu Gly Lys Asp Phe Ser Ile His Arg Leu Val Leu Gly Thr His
              100   105   110

Thr Ser Asp Glu Gln Asn His Leu Val Ile Ala Ser Val Gln Leu Pro
              115   120   125

Asn Asp Asp Ala Gln Phe Asp Ala Ser His Tyr Asp Ser Glu Lys Gly
              130   135   140

5194

```
Glu Phe Gly Gly Phe Gly Ser Val Ser Gly Lys Ile Glu Ile Glu Ile
145             150             155             160

Lys Ile Asn His Glu Gly Glu Val Asn Arg Ala Arg Tyr Met Pro Gln
                165             170             175

Asn Pro Cys Ile Ile Ala Thr Lys Thr Pro Ser Ser Asp Val Leu Val
            180             185             190

Phe Asp Tyr Thr Lys His Pro Ser Lys Pro Asp Pro Ser Gly Glu Cys
        195             200             205

Asn Pro Asp Leu Arg Leu Arg Gly His Gln Lys Glu Gly Tyr Gly Leu
    210             215             220

Ser Trp Asn Pro Asn Leu Ser Gly His Leu Leu Ser Ala Ser Asp Asp
225             230             235             240

His Thr Ile Cys Leu Trp Asp Ile Ser Ala Val Pro Lys Glu Gly Lys
            245             250             255

Val Val Asp Ala Lys Thr Ile Phe Thr Gly His Thr Ala Val Val Glu
        260             265             270

Asp Val Ser Trp His Leu Leu His Glu Ser Leu Phe Gly Ser Val Ala
    275             280             285

Asp Asp Gln Lys Leu Met Ile Trp Asp Thr Arg Ser Asn Asn Thr Ser
290             295             300

Lys Pro Ser His Ser Val Asp Ala His Thr Ala Glu Val Asn Cys Leu
305             310             315             320

Ser Phe Asn Pro Tyr Ser Glu Phe Ile Leu Ala Thr Gly Ser Ala Asp
            325             330             335

Lys Thr Val Ala Leu Trp Asp Leu Arg Asn Leu Lys Leu Lys Leu His
        340             345             350

Ser Phe Glu Ser His Lys Asp Glu Ile Phe Gln Val Gln Trp Ser Pro
    355             360             365

His Asn Glu Thr Ile Leu Ala Ser Ser Gly Thr Asp Arg Arg Leu Asn
    370             375             380

Val Trp Asp Leu Ser Lys Ile Gly Glu Glu Gln Ser Pro Glu Asp Ala
385             390             395             400

Glu Asp Gly Pro Pro Glu Leu Leu Phe Ile His Gly Gly His Thr Ala
            405             410             415
```

5195

Lys Ile Ser Asp Phe Ser Trp Asn Pro Asn Glu Pro Trp Val Ile Cys
            420   425   430

Ser Val Ser Glu Asp Asn Ile Met Gln Val Trp Gln Met Ala Glu Asn
            435   440   445

Ile Tyr Asn Asp Glu Asp Pro Glu Gly Ser Val Asp Pro Glu Gly Gln
    450   455   460

Gly Ser
465

<210> 5910
<211> 67
<212> PRT
<213> Homo sapiens

<400> 5910
Leu Leu Pro His Pro Phe Ser Cys Val His Val Ala Phe Ser Asn Pro
    1   5   10   15

Gly Gln Trp Phe Leu Pro Arg Pro Cys Thr Glu Ala Gly Cys Leu Pro
            20   25   30

Asp Pro Arg Arg Val Arg Glu Gly Arg Gly Ile Leu Leu Leu Glu Leu
            35   40   45

Gln Ala Leu Ala Glu Ala Val Ser His Thr Val Val Ser Ser Ala Trp
    50   55   60

Ala Gly Thr
 65

<210> 5911
<211> 212
<212> PRT
<213> Homo sapiens

<400> 5911
Glu Ile Ile Thr Asp Arg Gln Ser Gly Lys Lys Arg Gly Phe Gly Phe
    1   5   10   15

Val Thr Phe Asp Asp His Asp Pro Val Asp Lys Ile Val Leu Gln Lys
            20   25   30

Tyr His Thr Ile Asn Gly His Asn Ala Glu Val Arg Lys Ala Leu Ser

5196

```
                35                    40                    45
   Arg Gln Glu Met Gln Glu Val Gln Ser Ser Arg Ser Gly Arg Gly Gly
            50                    55                    60

   Asn Phe Gly Phe Gly Asp Ser Arg Gly Gly Gly Gly Asn Phe Gly Pro
   65                    70                    75                    80

   Gly Pro Gly Ser Asn Phe Arg Gly Gly Ser Asp Gly Tyr Gly Ser Gly
                      85                    90                    95

   Arg Gly Phe Gly Asp Gly Tyr Asn Gly Tyr Gly Gly Gly Pro Gly Gly
                     100                   105                   110

   Gly Asn Phe Gly Gly Ser Pro Gly Tyr Gly Gly Gly Arg Gly Gly Tyr
            115                   120                   125

   Gly Gly Gly Gly Pro Gly Tyr Gly Asn Gln Gly Gly Gly Tyr Gly Gly
         130                   135                   140

   Gly Tyr Asp Asn Tyr Gly Gly Gly Asn Tyr Gly Ser Gly Asn Tyr Asn
   145                   150                   155                   160

   Asp Phe Gly Asn Tyr Asn Gln Gln Pro Ser Asn Tyr Gly Pro Met Lys
                     165                   170                   175

   Ser Gly Asn Phe Gly Gly Ser Arg Asn Met Gly Gly Pro Tyr Gly Gly
                     180                   185                   190

   Gly Asn Tyr Gly Pro Gly Gly Ser Gly Gly Ser Gly Gly Tyr Gly Gly
            195                   200                   205

   Arg Ser Arg Tyr
         210
```

```
<210> 5912
<211> 385
<212> PRT
<213> Homo sapiens

<400> 5912
His Leu Glu Pro Ala Gln Leu Val Ser Lys Lys His Lys Leu Arg Ser
 1               5                   10                  15

Gln Lys Arg Pro Arg Arg Cys Leu Trp Leu His Gln Ser Ser Arg Arg
               20                  25                  30

Thr Trp Leu Gly Pro Arg Arg Gly His Pro Leu Cys Arg Cys Pro Pro
            35                  40                  45
```

5197

```
Arg Arg Pro Trp Leu Trp Leu Asp Arg Ser Gln Lys Leu Thr Ser Ser
    50              55              60

Ala Ser Ser Pro Ser Gln Pro Tyr Ser Val Gln Pro Leu His Leu Pro
65              70              75                  80

Asp Gly Trp Ala Asp Pro Ala Gly Leu Arg Leu Arg Gly Val Phe Leu
            85              90              95

Cys Leu Pro Arg Val Leu Gln Arg Arg Cys Pro Pro Gly Val Pro Asn
            100             105             110

Thr Ser Arg Ala Val Gln Glu Ala Ser Gly Arg Gly Arg Ala Ala Arg
        115             120             125

His Arg Asn Ser Leu Gln Arg Pro Cys Ser Arg Ser Gln Ser Pro Gly
    130             135             140

Gly Glu Glu Gly Met Ala Arg Ala Tyr Ala Val Val Cys Asp Cys Lys
145             150             155             160

Leu Phe Leu Tyr Asp Leu Pro Glu Gly Lys Ser Thr Gln Pro Gly Val
            165             170             175

Ile Ala Ser Gln Val Leu Asp Leu Arg Asp Asp Glu Phe Ser Val Ser
            180             185             190

Ser Val Leu Ala Ser Asp Val Ile His Ala Thr Arg Arg Asp Ile Pro
        195             200             205

Cys Ile Phe Arg Val Thr Ala Ser Leu Leu Gly Ala Pro Ser Lys Thr
    210             215             220

Ser Ser Leu Leu Ile Leu Thr Glu Asn Glu Asn Glu Lys Arg Lys Trp
225             230             235             240

Val Gly Ile Leu Glu Gly Leu Gln Ser Ile Leu His Lys Asn Arg Leu
            245             250             255

Arg Asn Gln Val Val His Val Pro Leu Glu Ala Tyr Asp Ser Ser Leu
            260             265             270

Pro Leu Ile Lys Ala Ile Leu Thr Ala Ala Ile Val Asp Ala Asp Arg
            275             280             285

Ile Ala Val Gly Leu Glu Glu Gly Leu Tyr Val Ile Glu Val Thr Arg
    290             295             300

Asp Val Ile Val Arg Ala Ala Asp Cys Lys Lys Val His Gln Ile Glu
305             310             315             320
```

```
Leu Ala Pro Arg Glu Lys Ile Val Ile Leu Leu Cys Gly Arg Asn His
             325             330             335

His Val His Leu Tyr Pro Trp Ser Ser Leu Asp Gly Ala Glu Gly Ser
             340             345             350

Phe Asp Ile Lys Leu Pro Glu Thr Lys Gly Cys Gln Leu Met Ala Thr
             355             360             365

Ala Thr Leu Lys Arg Asn Ser Gly Thr Cys Leu Phe Val Ala Val Lys
     370             375             380

Arg
385
```

```
<210> 5913
<211> 39
<212> PRT
<213> Homo sapiens

<400> 5913
Thr Gln Ser Lys Trp Arg Leu Glu Val Gln Cys Gly Lys Glu Lys Gln
 1           5               10              15

Val Phe Ile Glu Ser Thr Asn Ser Thr Pro Phe Ile Asp Thr Glu Asn
             20              25              30

Val Glu Asn Pro Lys Phe Asp
         35
```

```
<210> 5914
<211> 321
<212> PRT
<213> Homo sapiens

<400> 5914
Glu Arg Thr Leu Gly Gln Pro Gly Phe Leu Gly Cys Pro Arg Gln Pro
 1           5               10              15

His Thr Ala Met His Tyr Pro Thr Ala Leu Leu Phe Leu Ile Leu Ala
             20              25              30

Asn Gly Ala Gln Ala Phe Arg Ile Cys Ala Phe Asn Ala Gln Arg Leu
         35              40              45

Thr Leu Ala Lys Val Ala Arg Glu Gln Val Met Asp Thr Leu Val Arg
```

5199

```
         50                      55                      60
Ile Leu Ala Arg Cys Asp Ile Met Val Leu Gln Glu Val Val Asp Ser
65                      70                      75                      80

Ser Gly Ser Ala Ile Pro Leu Leu Leu Arg Glu Leu Asn Arg Phe Asp
                    85                      90                      95

Gly Ser Gly Pro Tyr Ser Thr Leu Ser Ser Pro Gln Leu Gly Arg Ser
                100                     105                     110

Thr Tyr Met Glu Thr Tyr Val Tyr Phe Tyr Arg Ser His Lys Thr Gln
            115                     120                     125

Val Leu Ser Ser Tyr Val Tyr Asn Asp Glu Asp Val Phe Ala Arg
        130                     135                     140

Glu Pro Phe Val Ala Gln Phe Ser Leu Pro Ser Asn Val Leu Pro Ser
145                     150                     155                     160

Leu Val Leu Val Pro Leu His Thr Thr Pro Lys Ala Val Glu Lys Glu
                165                     170                     175

Leu Asn Ala Leu Tyr Asp Val Phe Leu Glu Val Ser Gln His Trp Gln
            180                     185                     190

Ser Lys Asp Val Ile Leu Leu Gly Asp Phe Asn Ala Asp Cys Ala Ser
            195                     200                     205

Leu Thr Lys Lys Arg Leu Asp Lys Leu Glu Leu Arg Thr Glu Pro Gly
        210                     215                     220

Phe His Trp Val Ile Ala Asp Gly Glu Asp Thr Thr Val Arg Ala Ser
225                     230                     235                     240

Thr His Cys Thr Tyr Asp Arg Val Val Leu His Gly Glu Arg Cys Arg
                245                     250                     255

Ser Leu Leu His Thr Ala Ala Ala Phe Asp Phe Pro Thr Ser Phe Gln
            260                     265                     270

Leu Thr Glu Glu Glu Ala Leu Asn Ile Ser Asp His Tyr Pro Val Glu
            275                     280                     285

Val Glu Leu Lys Leu Ser Gln Ala His Ser Val Gln Pro Leu Ser Leu
        290                     295                     300

Thr Val Leu Leu Leu Leu Ser Leu Leu Ser Pro Gln Leu Cys Pro Ala
305                     310                     315                     320

Ala
```

5200

```
<210> 5915
<211> 38
<212> PRT
<213> Homo sapiens

<400> 5915
Phe Ser Cys Leu Ser Leu Pro Ser Ser Trp Glu Asn Arg Pro Val Pro
 1               5                  10                  15

Pro His Arg Ser Ser Phe Cys Ile Phe Ser Arg Asp Gly Val Ser Pro
                20              25                  30

Cys Trp Pro Gly Trp Ser
            35
```

```
<210> 5916
<211> 359
<212> PRT
<213> Homo sapiens

<400> 5916
Ile Asn Leu Glu Glu Val Gly Thr Ile Cys Leu Gly Phe Phe Lys Ser
 1               5                  10                  15

Ser Thr Asn Leu Ser Glu Phe Val Met Arg Lys Ile Gly Asp Leu Ala
                20              25                  30

Cys Ala Asn Ile Gln His Leu Ser Ser Arg Ser Leu Val Asn Ile Val
            35              40                  45

Lys Met Phe Arg Phe Thr His Val Asp His Ile Asn Phe Met Lys Gln
    50                  55                  60

Ile Gly Glu Ile Ala Pro Gln Arg Ile Pro Ser Leu Gly Val Gln Gly
65                  70                  75                  80

Val Met His Leu Thr Leu Tyr Cys Ser Ala Leu Arg Phe Leu Asn Glu
                85                  90                  95

Gly Val Met Asn Ala Val Ala Ala Ser Leu Pro Pro Arg Val Ala His
                100             105                 110

Cys Arg Ser Lys Asp Val Ala Lys Ile Leu Trp Ser Phe Gly Thr Leu
            115             120                 125
```

5201

Asn Tyr Lys Pro Pro Asn Ala Glu Glu Phe Tyr Ser Ser Leu Ile Ser
    130   135   140

Glu Ile His Arg Lys Met Pro Glu Phe Asn Gln Tyr Pro Glu His Leu
145   150   155   160

Pro Thr Cys Leu Leu Gly Leu Ala Phe Leu Glu Tyr Phe Pro Val Glu
            165   170   175

Leu Ile Asp Phe Ala Leu Ser Pro Gly Phe Val Arg Leu Ala Gln Glu
            180   185   190

Arg Thr Lys Phe Asp Leu Leu Lys Glu Leu Tyr Thr Leu Asp Gly Thr
        195   200   205

Val Gly Ile Glu Cys Pro Asp Tyr Arg Gly Asn Arg Leu Ser Thr His
    210   215   220

Leu Gln Gln Glu Gly Ser Glu Leu Leu Trp Tyr Leu Ala Glu Lys Asp
225   230   235   240

Met Asn Ser Lys Pro Glu Phe Leu Glu Thr Val Phe Leu Leu Glu Thr
            245   250   255

Met Leu Gly Gly Pro Gln Tyr Val Lys His His Met Ile Leu Pro His
            260   265   270

Thr Arg Ser Ser Asp Leu Glu Val Gln Leu Asp Val Asn Leu Lys Pro
        275   280   285

Leu Pro Phe Asn Arg Glu Ala Thr Pro Ala Glu Asn Val Ala Lys Leu
    290   295   300

Arg Leu Glu His Val Gly Val Ser Leu Thr Asp Asp Leu Met Asn Lys
305   310   315   320

Leu Leu Lys Gly Lys Ala Arg Gly His Phe Gln Gly Lys Thr Glu Ser
            325   330   335

Glu Pro Gly Gln Gln Pro Trp Ser Trp Arg Ile Arg Gln Leu Tyr Leu
            340   345   350

Trp Gly Ala Ser Phe Ala Met
            355

<210> 5917
<211> 82
<212> PRT
<213> Homo sapiens

5202

<400> 5917
Phe Gly Leu Phe Cys Thr Leu Tyr Lys Trp Thr His Ile Met Phe Ile
1   5   10   15

Phe Trp Val Cys Leu Leu Ser Phe Asn Ile Arg Phe Val Gly Ser Ser
            20   25   30

Leu Leu Cys Val Val Leu Ser Cys Ser Leu Tyr Ser Val Pro Lys Tyr
            35   40   45

Ser Ile Leu Gln Phe Thr His Ser Thr Leu Asp Ser Lys Cys Phe His
        50   55   60

Ile Trp Ala Ile Thr Asn Ser Ala Ala Val Asn Ile His Ile His Ile
65   70   75   80

Phe Trp

<210> 5918
<211> 111
<212> PRT
<213> Homo sapiens

<400> 5918
Ala Phe Leu Pro Ala Gly Pro Ser Gly Phe Pro Ser Gly Pro Gly Cys
1   5   10   15

Val Trp Lys Cys His Leu Gly Ala Arg Ala Trp Met Ser Ala Ser Gly
            20   25   30

Leu Cys Leu Ala Pro Tyr Pro Thr Val Ala Glu Leu Val Tyr Lys Leu
            35   40   45

Gln Asp Ser Leu Leu Tyr Ser Ser Ser Ser Pro Val Ala Glu Arg
        50   55   60

Arg Asn Leu Ser Gln Ser Cys Glu Leu Tyr Cys Leu Gly Leu Gly Glu
65   70   75   80

Gly Trp His Lys His Ser Leu Ser His Pro Gly Trp Cys Leu Thr Asn
                85   90   95

Leu Cys Ala Pro Gln Val His Trp Leu Gln Gly Gln Arg Ser Thr
            100   105   110

5203

```
<210> 5919
<211> 441
<212> PRT
<213> Homo sapiens

<400> 5919
Arg Arg Arg Arg Ala Cys Arg Ser Ala Glu Gly Thr Gly Leu Arg Ser
 1               5               10              15

Leu Leu Leu Pro Pro Arg Leu Gln Leu Pro Ala Gly Pro Phe Ser Arg
            20              25          .       30

Cys Arg Trp Asp Pro Val Ser Ser Pro Arg Pro Ser Thr Met Pro Pro
            35              40              45

Lys Lys Gly Gly Asp Gly Ile Lys Pro Pro Pro Ile Ile Gly Arg Phe
    50              55              60

Gly Thr Ser Leu Lys Ile Gly Ile Val Gly Leu Pro Asn Val Gly Lys
65              70              75              80

Ser Thr Phe Phe Asn Val Leu Thr Asn Ser Gln Ala Ser Ala Glu Asn
            85              90              95

Phe Pro Phe Cys Thr Ile Asp Pro Asn Glu Ser Arg Val Pro Val Pro
            100             105             110

Asp Glu Arg Phe Asp Phe Leu Cys Gln Tyr His Lys Pro Ala Ser Lys
            115             120             125

Ile Pro Ala Phe Leu Asn Val Val Asp Ile Ala Gly Leu Val Lys Gly
    130             135             140

Ala His Asn Gly Gln Gly Leu Gly Asn Ala Phe Leu Ser His Ile Ser
145             150             155             160

Ala Cys Asp Gly Ile Phe His Leu Thr Arg Ala Phe Glu Asp Asp Asp
                165             170             175

Ile Thr His Val Glu Gly Ser Val Asp Pro Ile Arg Asp Ile Glu Ile
                180             185             190

Ile His Glu Glu Leu Gln Leu Lys Asp Glu Glu Met Ile Gly Pro Ile
            195             200             205

Ile Asp Lys Leu Glu Lys Val Ala Val Arg Gly Gly Asp Lys Lys Leu
    210             215             220

Lys Pro Glu Tyr Asp Ile Met Cys Lys Val Lys Ser Trp Val Ile Asp
225             230             235             240
```

5204

```
Gln Lys Lys Pro Val Arg Phe Tyr His Asp Trp Asn Asp Lys Glu Ile
            245             250             255

Glu Val Leu Asn Lys His Leu Phe Leu Thr Ser Lys Pro Met Val Tyr
            260             265             270

Leu Val Asn Leu Ser Glu Lys Asp Tyr Ile Arg Lys Lys Asn Lys Trp
            275             280             285

Leu Ile Lys Ile Lys Glu Trp Val Asp Lys Tyr Asp Pro Gly Ala Leu
    290             295             300

Val Ile Pro Phe Ser Gly Ala Leu Glu Leu Lys Leu Gln Glu Leu Ser
305             310             315             320

Ala Glu Glu Arg Gln Lys Tyr Leu Glu Ala Asn Met Thr Gln Ser Ala
            325             330             335

Leu Pro Lys Ile Ile Lys Ala Gly Phe Ala Ala Leu Gln Leu Glu Tyr
            340             345             350

Phe Phe Thr Ala Gly Pro Asp Glu Val Arg Ala Trp Thr Ile Arg Lys
            355             360             365

Gly Thr Lys Ala Pro Gln Ala Ala Gly Lys Ile His Thr Asp Phe Glu
    370             375             380

Lys Gly Phe Ile Met Ala Glu Val Met Lys Tyr Glu Asp Phe Lys Glu
385             390             395             400

Glu Gly Ser Glu Asn Ala Val Lys Ala Ala Gly Lys Tyr Arg Gln Gln
            405             410             415

Gly Arg Asn Tyr Ile Val Glu Asp Gly Asp Ile Ile Phe Phe Lys Phe
            420             425             430

Asn Thr Pro Gln Gln Pro Lys Lys Lys
            435             440
```

```
<210> 5920
<211> 275
<212> PRT
<213> Homo sapiens

<400> 5920
Gly Val Ala Leu Phe Lys Ser Ala Ala Gly Asp Gln Pro Thr Ala Ala
  1               5               10              15

Cys Ile Cys Ile Gln Arg Gln Val Pro Pro Val Pro Ala Ala Arg Ala
```

5205

```
                 20                      25                      30
Pro Gln Ser Arg Thr Arg Ser Ala Gln Ala Lys Leu Ala Leu Thr Met
        35              40              45

Pro Val Lys Gly Gly Thr Lys Cys Ile Lys Tyr Leu Leu Phe Gly Phe
    50              55              60

Asn Phe Ile Phe Trp Leu Ala Gly Ile Ala Val Leu Ala Ile Gly Leu
65              70              75                      80

Trp Leu Arg Phe Asp Ser Gln Thr Lys Ser Ile Phe Glu Gln Glu Thr
            85              90                      95

Asn Asn Asn Asn Ser Ser Phe Tyr Thr Gly Val Tyr Ile Leu Ile Gly
        100             105             110

Ala Gly Ala Leu Met Met Leu Val Gly Phe Leu Gly Cys Cys Gly Ala
        115             120             125

Val Gln Glu Ser Gln Cys Met Leu Gly Leu Phe Phe Gly Phe Leu Leu
        130             135             140

Val Ile Phe Ala Ile Glu Ile Ala Ala Ala Ile Trp Gly Tyr Ser His
145             150             155             160

Lys Asp Glu Val Ile Lys Glu Val Gln Glu Phe Tyr Lys Asp Thr Tyr
            165             170             175

Asn Lys Leu Lys Thr Lys Asp Glu Pro Gln Arg Glu Thr Leu Lys Ala
        180             185             190

Ile His Tyr Ala Leu Asn Cys Cys Gly Leu Ala Gly Gly Val Glu Gln
        195             200             205

Phe Ile Ser Asp Ile Cys Pro Lys Lys Asp Val Leu Glu Thr Phe Thr
    210             215             220

Val Lys Ser Cys Pro Asp Ala Ile Lys Glu Val Phe Asp Asn Lys Phe
225             230             235             240

His Ile Ile Gly Ala Val Gly Ile Gly Ile Ala Val Val Met Ile Phe
            245             250             255

Gly Met Ile Phe Ser Met Ile Leu Cys Cys Ala Ile Arg Arg Asn Arg
            260             265             270

Glu Met Val
        275
```

```
<210> 5921
<211> 115
<212> PRT
<213> Homo sapiens

<400> 5921
Val Gly Cys Arg Pro Leu Ser Ser Cys His Leu Leu Ala Val Ala Arg
1               5                   10                  15

Ser Tyr Phe Ser Leu Ser Gly Val Ile Cys Ile Trp Arg Phe His Cys
                20                  25                  30

Cys Phe Ser Leu Ser Tyr Leu Glu Trp Asn Pro Glu Ser Cys Pro Phe
            35                  40                  45

Pro Pro Thr Cys Ser Tyr Leu Lys Ala Pro Glu Thr Tyr Trp Val Pro
        50                  55                  60

Asp Ser Cys Phe Val Cys Ile Arg Arg Val Val Ala Cys His Leu Ala
65                  70                  75                  80

Cys Phe Leu Asn Asn Pro Thr Ser Cys Pro Pro Cys Thr Tyr Ile Ala
                85                  90                  95

Thr Ala Leu Ile Trp Ala Phe Phe Phe Leu Gly Gln Cys Leu Cys Pro
                100                 105                 110

Asn Ser Glu
        115


<210> 5922
<211> 291
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (60)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (217)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5922
His Gly Leu Cys Arg Leu Phe Asn Ser Pro Leu Lys Pro Leu Ala Asp
1               5                   10                  15
```

5207

Leu Asp Pro Val Val Val Thr Phe Trp Tyr Arg Ala Pro Glu Leu Leu
            20   25   30

Leu Gly Ala Arg His Tyr Thr Lys Ala Ile Asp Ile Trp Ala Ile Gly
        35   40   45

Cys Ile Phe Ala Glu Leu Leu Thr Ser Glu Pro Xaa Phe His Cys Arg
    50   55   60

Gln Glu Asp Ile Lys Thr Ser Asn Pro Tyr His His Asp Gln Leu Asp
65   70   75   80

Arg Ile Phe Asn Val Met Gly Phe Pro Ala Asp Lys Asp Trp Glu Asp
            85   90   95

Ile Lys Lys Met Pro Glu His Ser Thr Leu Met Lys Asp Phe Arg Arg
            100   105   110

Asn Thr Tyr Thr Asn Cys Ser Leu Ile Lys Tyr Met Glu Lys His Lys
        115   120   125

Val Lys Pro Asp Ser Lys Ala Phe His Leu Leu Gln Lys Leu Leu Thr
    130   135   140

Met Asp Pro Ile Lys Arg Ile Thr Ser Glu Gln Ala Met Gln Asp Pro
145   150   155   160

Tyr Phe Leu Glu Asp Pro Leu Pro Thr Ser Asp Val Phe Ala Gly Cys
            165   170   175

Gln Ile Pro Tyr Pro Lys Arg Glu Phe Leu Thr Glu Glu Glu Pro Asp
        180   185   190

Asp Lys Gly Asp Lys Lys Asn Gln Gln Gln Gln Gly Asn Asn His
        195   200   205

Thr Asn Gly Thr Gly His Pro Gly Xaa Gln Asp Ser Ser His Thr Gln
210   215   220

Gly Pro Pro Leu Lys Lys Val Arg Val Val Pro Pro Thr Thr Thr Ser
225   230   235   240

Gly Gly Leu Ile Met Thr Ser Asp Tyr Gln Arg Ser Asn Pro His Ala
            245   250   255

Ala Tyr Pro Asn Pro Gly Pro Ser Thr Ser Gln Pro Gln Ser Ser Met
            260   265   270

Gly Tyr Ser Ala Thr Ser Gln Gln Pro Pro Gln Tyr Ser His Gln Thr
    275   280   285

5208

His Arg Tyr
    290

<210> 5923
<211> 100
<212> PRT
<213> Homo sapiens

<400> 5923
Arg Pro Pro Ser Arg Trp Ser Trp Trp Gln Gly Lys Pro Thr Gly Gly
 1   5   10   15

Val Cys Val Ala Ala Ala Arg Ser Ser Pro Ser Val Thr Ala Pro Thr
                20   25   30

Ser Ser Asn Ala Leu Ala Tyr Leu His Ser Ser Ser Arg Pro Lys Arg
            35   40   45

Pro Ala Trp Trp His Ser Val Pro Ala Arg Pro Leu Arg Gly Pro Arg
        50   55   60

Thr Ala Met Ala Pro Thr Gly Val Ser Ala Cys Arg Arg Gln Lys Trp
 65   70   75   80

Ala Pro His Ser Glu Gly Ala Ala Ala Val Gln Pro Gln Val Ala Leu
                85   90   95

Ala Pro Gly Leu
            100

<210> 5924
<211> 241
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (13)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (17)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

5209

```
<221> SITE
<222> (19)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (44)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5924
Tyr Arg Pro Gly Pro Leu Thr Ser Gln Gly Met Asn Xaa Ser Arg Gln
 1           5               10              15

Xaa Pro Xaa Leu Asn Leu Leu Pro Ser Ser Ala His Phe Arg Pro Ser
            20              25              30

Thr Tyr Lys Lys Ser Ser Gly Pro Leu Lys Ala Xaa Lys Leu Ile Ile
        35              40              45

His Trp Asn Cys Trp Glu Asp Ser Leu Ser Gly Ile Ala Met Asn Val
    50              55              60

Pro Ala Ser Arg Gly Ser Asn Leu Asn Ser Ser Gly Ala Asn Arg Thr
65              70              75              80

Ser Leu Ser Gly Gly Thr Gly Ser Gly Thr Gln Gly Ala Thr Lys Pro
            85              90              95

Leu Ser Thr Pro His Arg Pro Ser Thr Ala Ser Gly Ser Ser Val Val
            100             105             110

Thr Ala Ser Val Gln Lys Leu Ile His Thr Glu Asp Pro Phe Asn Asp
        115             120             125

Glu His Gln Glu Arg Gln Glu Val Glu Met Leu Ala Lys Lys Phe Glu
    130             135             140

Met Lys Tyr Tyr Asp Glu Leu Val Pro Ala Ser Leu Thr Thr Lys Tyr
145             150             155             160

Gly Gly Phe Tyr Ile Asn Thr Gly Thr Leu Gln Phe Arg Gln Ala Ser
            165             170             175

Asp Thr Glu Glu Asp Asp Ile Thr Asp Asn Gln Lys His Lys Pro Pro
            180             185             190

Lys Val Pro Lys Ile Lys Glu Asp Asp Ile Glu Met Lys Lys Arg Lys
            195             200             205

Arg Lys Glu Glu Gly Glu Lys Glu Lys Lys Pro Arg Lys Lys Val Pro
210             215             220
```

5210

Lys Gln Leu Gly Val Val Ala Leu Asn Ser His Lys Ser Glu Lys Lys
225   230   235   240

Lys

<210> 5925
<211> 330
<212> PRT
<213> Homo sapiens

<400> 5925
Ala Gly Ser Arg Cys Pro Ala Trp Arg Ala Arg Ser Ala Cys Arg Trp
 1   5   10   15

Pro Leu Ala Arg Cys Ser Ser Pro Gly Cys Asp Ser Gly Phe Gly Lys
             20   25   30

Glu Thr Ala Lys Lys Leu Asp Ser Met Gly Phe Thr Val Leu Ala Thr
         35   40   45

Val Leu Glu Leu Asn Ser Pro Gly Ala Ile Glu Leu Arg Thr Cys Cys
     50   55   60

Ser Pro Arg Leu Arg Leu Leu Gln Met Asp Leu Thr Lys Pro Gly Asp
 65   70   75   80

Ile Ser Arg Val Leu Glu Phe Thr Lys Ala His Thr Thr Ser Thr Gly
             85   90   95

Leu Trp Gly Leu Val Asn Asn Ala Gly His Asn Glu Val Val Ala Asp
             100   105   110

Ala Glu Leu Ser Pro Val Ala Thr Phe Arg Ser Cys Met Glu Val Asn
         115   120   125

Phe Phe Gly Ala Leu Glu Leu Thr Lys Gly Leu Leu Pro Leu Leu Arg
     130   135   140

Ser Ser Arg Gly Arg Ile Val Thr Val Gly Ser Pro Ala Gly Asp Met
145   150   155   160

Pro Tyr Pro Cys Leu Gly Ala Tyr Gly Thr Ser Lys Ala Ala Val Ala
             165   170   175

Leu Leu Met Asp Thr Phe Ser Cys Glu Leu Leu Pro Trp Gly Val Lys
             180   185   190

5211

```
Val Ser Ile Ile Gln Pro Gly Cys Phe Lys Thr Glu Ser Val Arg Asn
        195             200             205

Val Gly Gln Trp Glu Lys Arg Lys Gln Leu Leu Leu Ala Asn Leu Pro
        210             215             220

Gln Glu Leu Leu Gln Ala Tyr Gly Lys Asp Tyr Ile Glu His Leu His
225                 230             235             240

Gly Gln Phe Leu His Ser Leu Arg Leu Ala Met Ser Asp Leu Thr Pro
            245             250             255

Val Val Asp Ala Ile Thr Asp Ala Leu Leu Ala Ala Arg Pro Arg Arg
            260             265             270

Arg Tyr Tyr Pro Gly Gln Gly Leu Gly Leu Met Tyr Phe Ile His Tyr
        275             280             285

Tyr Leu Pro Glu Gly Leu Arg Ala Ala Ser Cys Arg Pro Ser Ser Ser
        290             295             300

Val Thr Val Cys Leu Glu His Cys Ser Leu Ala Ser Leu Ala Leu Pro
305                 310             315             320

His His Arg Thr Gln Pro Arg Thr Gln Thr
                325             330
```

<210> 5926
<211> 88
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (56)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (82)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5926
Cys Xaa His Met Val Ile Met Cys Asp Trp Ile Met Lys Ile Ile Val

5212

1				5					10					15	

Val Cys Val Gly Thr Arg Asp Cys Pro Val Ser Arg Thr Pro Ala His
           20   25   30

Tyr Leu Ser Ile Leu Gln Pro Phe Ile Trp Lys Leu Pro Thr Ser Leu
           35   40   45

Cys Cys Val Cys Leu His Met Xaa Gly Phe Ala Val Leu Ala Leu Thr
   50   55   60

Ala His Arg Glu Cys Arg Pro His Pro Asn Pro His Gln Leu Pro Leu
 65   70   75   80

Glu Xaa Gln Asn Leu Gly Trp Gly
           85

<210> 5927
<211> 40
<212> PRT
<213> Homo sapiens

<400> 5927
Arg Tyr His Ile Leu Ser Gly Ile Ser Pro Pro Ala Leu Trp Leu Leu
 1   5   10   15

Val Glu Arg Leu Phe Gly Tyr Gly Leu Ala Val Glu Lys Ile Gln Val
           20   25   30

Ile Leu Leu Asn Asp Phe Thr Phe
           35   40

<210> 5928
<211> 113
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (96)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5928
Thr Phe Pro Asn Gly Ala Phe Ala Leu Ile Ser Lys Leu Thr Ala Arg
 1   5   10   15

Asp Ala Phe Leu Tyr Phe Asp Cys Phe Thr Val Glu Gly Gln Ile Pro

5213

```
              20                   25                   30
Arg Leu Ser Lys Val Asn Leu Phe Thr Leu Leu Ser Leu Trp Met Glu
        35                   40                   45
Leu Phe Pro Ala Glu Ala Gln Arg Gln Lys Ser Gln Lys Asn Glu Glu
        50                   55                   60
Gly Lys His Gly Pro Leu Gly Asp Asn Glu Glu Arg Thr Arg Val Ser
65                   70                   75                   80
Thr Asp Lys Arg Gln Lys Thr Met Phe Cys Leu Phe Glu Asn Asp Xaa
                85                   90                   95
Lys Cys Lys Ala Leu Thr Val Met Ile Arg Ser Met Ser Arg Ser Val
            100                  105                  110
Pro
```

```
<210> 5929
<211> 52
<212> PRT
<213> Homo sapiens

<400> 5929
Cys Ile Gly Pro Lys Cys Lys Leu His Trp Ser Asp Leu Glu Ala Phe
  1               5                  10                  15
Met Leu Thr Ser Phe Gly Lys Val Lys Asn Asn Lys Ile Ile Leu Asp
            20                   25                   30
Phe Ile Leu Tyr Ile Lys Ile Tyr Leu Leu Arg Lys Gln Ser Val Tyr
            35                   40                   45
Tyr Leu Leu Val
        50
```

```
<210> 5930
<211> 89
<212> PRT
<213> Homo sapiens

<400> 5930
Ala Glu Gln Glu Glu His Gly Lys Arg Lys Lys Lys Gly Lys Gly Leu
  1               5                  10                  15
```

5214

```
Gly Lys Lys Arg Asp Pro Cys Leu Arg Lys Tyr Lys Asp Phe Cys Ile
            20              25              30

His Gly Glu Cys Lys Tyr Val Lys Glu Leu Arg Ala Pro Ser Cys Ile
            35              40              45

Cys His Pro Gly Tyr His Gly Glu Arg Cys His Gly Leu Ser Leu Pro
        50              55              60

Val Glu Asn Arg Leu Tyr Thr Tyr Asp His Thr Thr Ile Leu Ala Val
65              70              75              80

Val Ala Val Val Leu Asp Leu Met Ser
                85
```

```
<210> 5931
<211> 85
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (66)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5931
Glu Ser Pro Thr Ile Val Lys Ala Gly Thr Pro Ala Gly Thr Gly Pro
 1              5              10              15

Glu Phe Pro Gly Arg Pro Thr Arg Pro Thr Arg Pro Gly Leu Leu
            20              25              30

Glu Pro Trp Thr Ser Lys Gly Val Glu Ile Ala Ala Ala Pro His Tyr
            35              40              45

Lys His Leu Gly Leu Glu Ala Thr Glu Tyr His Phe Leu His Ile Leu
        50              55              60

Leu Xaa Lys Ala Gly Gly Glu Pro Ala Leu Thr Lys Arg Val Gly Asp
65              70              75              80

Gln Thr Phe Thr Ser
                85
```

```
<210> 5932
<211> 155
<212> PRT
```

5215

<213> Homo sapiens

<220>
<221> SITE
<222> (21)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5932

```
Glu Trp Thr Glu Gly Gln Thr Val Gln Gly Arg Glu Asp His Trp Gly
 1               5                  10                  15

Arg Glu Val Thr Xaa Arg Glu Val Ser Val Gly Arg Gly Glu Thr Lys
             20                  25                  30

Glu Lys Ile Glu Glu Gln Lys Ala Leu Ala Leu Gln Leu Gln Asn Gln
         35                  40                  45

Arg Leu Gln Glu Arg Glu His Ser Val His Asp Ser Val Glu Leu His
     50                  55                  60

Leu Arg Val Pro Leu Glu Lys Glu Ile Pro Val Thr Val Val Gln Glu
 65                  70                  75                  80

Thr Gln Lys Lys Gly His Lys Leu Thr Asp Ser Glu Asp Glu Phe Pro
                 85                  90                  95

Glu Ile Thr Glu Glu Met Glu Lys Glu Ile Lys Asn Val Phe Arg Asn
             100                 105                 110

Gly Asn Gln Asp Glu Val Leu Ser Glu Ala Phe Arg Leu Thr Ile Thr
         115                 120                 125

Arg Lys Asp Ile Gln Thr Leu Asn His Leu Asn Trp Leu Asn Asp Glu
     130                 135                 140

Ile Ile Asn Phe Tyr Met Asn Met Leu Met Gly
145                 150                 155
```

<210> 5933
<211> 150
<212> PRT
<213> Homo sapiens

<400> 5933

```
Gly Thr Thr Thr Arg Asp Phe Thr Gln Leu Asn Glu Leu Gln Cys Arg
 1               5                  10                  15

Phe Pro Arg Arg Leu Val Val Leu Gly Phe Pro Cys Asn Gln Phe Gly
             20                  25                  30
```

5216

```
His Gln Glu Asn Cys Gln Asn Glu Glu Ile Leu Asn Ser Leu Lys Tyr
        35                  40                  45

Val Arg Pro Gly Gly Gly Tyr Gln Pro Thr Phe Thr Leu Val Gln Lys
        50                  55                  60

Cys Glu Val Asn Gly Gln Asn Glu His Pro Val Phe Ala Tyr Leu Lys
65                  70                  75                  80

Asp Lys Leu Pro Tyr Pro Tyr Asp Asp Pro Phe Ser Leu Met Thr Asp
                85                  90                  95

Pro Lys Leu Ile Ile Trp Ser Pro Val Arg Arg Ser Asp Val Ala Trp
                100                 105                 110

Asn Phe Glu Lys Phe Leu Ile Gly Pro Glu Gly Glu Pro Phe Arg Arg
        115                 120                 125

Tyr Ser Arg Thr Phe Pro Thr Ile Asn Ile Glu Pro Asp Ile Lys Arg
        130                 135                 140

Leu Leu Lys Val Ala Ile
145                 150
```

```
<210> 5934
<211> 67
<212> PRT
<213> Homo sapiens

<400> 5934
His Ile Arg Thr Gly Glu Arg Glu Arg Arg Gly Leu Phe Phe Cys Ser
 1               5                  10                  15

Ile Phe Gln Ser His Ile Arg Val Ile Leu Asn Cys Asn Lys Asp Gln
            20                  25                  30

Leu Leu Lys Ile Ser Leu Leu Lys Ile Gln Asn Asp Leu Ser Ile Leu
        35                  40                  45

Lys Ile Ile Tyr Leu Pro Cys Ser Cys Leu Leu Thr Leu Ala Ile Ser
        50                  55                  60

Trp Arg Gly
 65
```

```
<210> 5935
```

5217

<211> 107
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (25)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5935
Ile Leu Gly Asp Thr Ile Glu Gly Thr Pro Ala Gly Thr Gly Pro Glu
 1   5   10   15

Phe Pro Gly Arg Pro Thr Arg Pro Xaa Thr Val Arg Leu Ser Ala Ile
             20   25   30

Asp Gly Ala Leu Leu Trp Cys Leu Leu Glu Val Tyr Cys His Tyr Arg
             35   40   45

Glu Pro Cys Leu Leu Ala Ser Leu Asp Leu Tyr Ser Lys Gln Ser Val
         50   55   60

Ser Asp Asp Lys Phe Cys Arg Arg Val Tyr Ser Glu Pro Leu Thr Ser
 65   70   75   80

Cys Lys Gly Lys Met Gly Gly Leu Pro Glu Ile Pro Leu Lys Gln Gly
                 85   90   95

Gly Leu Trp Gly Gly Arg Leu Gly Tyr Leu Ser
                100   105

<210> 5936
<211> 125
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (21)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5936
Arg Ala Leu Trp Phe Phe Ser Ser Arg Gly His Asp Ala Ser Gln Ile
 1   5   10   15

Thr Leu Ala Leu Xaa Thr Ala Ala Ser Tyr Pro Arg Ala Cys Gln Ala
             20   25   30

Leu Gly Ala Met Leu Ser Lys Gly Ala Leu Asn Pro Ala Asp Ile Thr

5218

```
          35                    40                    45
Val Leu Phe Lys Met Phe Thr Ser Met Asp Pro Pro Pro Val Glu Leu
          50                    55                    60
Glu Val Ala Ser Gln Glu Ser Pro Met Ser Ala Gly Lys Val Thr Leu
          65                    70                    75                    80
Glu Ser Leu Cys Leu Ser Asp Cys Leu Lys Ala Val Asn Ala Asn Pro
                    85                    90                    95
Ser Leu Ser Trp Ser Phe Leu Ser His Thr Leu Cys Leu Glu Pro Val
                    100                   105                   110
Gly Pro Leu Leu Cys Arg Asp Thr Leu Arg Gly Gly Gly
                    115                   120                   125
```

```
<210> 5937
<211> 223
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (35)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5937
```

```
Arg His Cys Leu Pro Pro Thr Pro Pro Gln Gly Cys Gly Leu Pro Ala
  1               5                    10                    15
Leu Gly Gly Gln Ala Met Leu Thr Leu His Gly Gly His Ser Ser Arg
                    20                    25                    30
Glu Ala Xaa Lys Val Val Asn Ser Ile Leu Ala Phe Arg Glu Lys Glu
                    35                    40                    45
Trp Gln Arg Leu Gln Ser Asn Pro His Leu Lys Glu Gly Ser Val Thr
          50                    55                    60
Ser Val Asn Leu Thr Lys Leu Glu Gly Gly Val Ala Tyr Asn Val Ile
  65                    70                    75                    80
Pro Ala Thr Met Ser Ala Ser Phe Asp Phe Arg Val Ala Pro Asp Val
                    85                    90                    95
Asp Phe Lys Ala Phe Glu Glu Gln Leu Gln Ser Trp Cys Gln Ala Ala
                    100                   105                   110
```

5219

```
Gly Glu Gly Val Thr Leu Glu Phe Ala Gln Lys Trp Met His Pro Gln
        115             120             125

Val Thr Pro Thr Asp Asp Ser Asn Pro Trp Trp Ala Ala Phe Ser Arg
        130             135             140

Val Cys Lys Asp Met Asn Leu Thr Leu Glu Pro Glu Ile Met Pro Ala
145             150             155             160

Ala Thr Asp Asn Arg Tyr Ile Arg Ala Val Gly Val Pro Ala Leu Gly
                165             170             175

Phe Ser Pro Met Asn Arg Thr Pro Val Leu Leu His Asp His Asp Glu
            180             185             190

Arg Leu His Glu Ala Val Phe Leu Arg Gly Val Asp Ile Tyr Thr Arg
        195             200             205

Leu Leu Pro Ala Leu Ala Ser Val Pro Ala Leu Pro Ser Asp Ser
    210             215             220
```

```
<210> 5938
<211> 86
<212> PRT
<213> Homo sapiens

<400> 5938
Ala Leu Cys Pro Pro Arg Gly Thr Ala Ser Gly Pro Arg His Thr Leu
    1           5               10              15

Trp Leu Asn Gln Gly Leu Gln Gly Pro Cys Gly Pro Ala Gln Ala Leu
            20              25              30

Met Gly Arg His Val Arg Ser Trp Arg Thr Gln Ala Pro Phe Leu Ser
        35              40              45

Gly Val Val Phe Phe Leu Cys Pro Gly Ala Ser Pro Ser Ser Asn Gly
    50              55              60

Pro Phe Ala Arg Phe Gly Val Pro Leu Ala Gly Pro Ile Arg Thr Leu
65              70              75              80

Arg Ser Asn Gln Gly Arg
                85
```

```
<210> 5939
<211> 130
```

5220

<212> PRT
<213> Homo sapiens

<400> 5939
Arg Arg Asp Ala Cys Pro Ile Ser Arg Glu Pro Pro Thr Arg Pro Trp
 1   5   10   15

Gly Thr Thr Ser Thr Leu Leu Leu Ser Leu Gln Ser Pro Val Pro Arg
                 20   25   30

Met Gly His Leu Gln Pro Leu Ala Leu Pro Gln Phe Leu His Leu Pro
             35   40   45

Ala Ala Ala Pro Arg Asn Trp Ala Pro Ser Ser Arg Ala Trp Pro Ala
         50   55   60

Cys Ala Pro Arg Ser Arg Pro Gly Arg Ala Ala Val Phe Leu Lys Tyr
65   70   75   80

Ala Arg Pro Gln Arg Gln Gly Thr Ser Leu Ala Ala Ala Leu Pro Ala
                 85   90   95

Ala Ala Ser Ser Leu Ser Leu Pro Glu Tyr Trp Asp Ser Val Thr Lys
                 100   105   110

Lys Ser Thr Thr Lys Asn Lys Thr Leu Pro Val Cys Val Arg Leu Ser
             115   120   125

Ser Gln
    130

<210> 5940
<211> 148
<212> PRT
<213> Homo sapiens

<400> 5940
Gly Arg Thr Cys Lys Lys Glu Leu Thr Arg Lys Asp Thr Ile Met Ala
 1   5   10   15

His Val Thr Glu Phe His Asn Gly His Arg Tyr Phe Tyr Glu Met Asp
                 20   25   30

Glu Val Glu Gly Glu Thr Leu Pro Ser Ser Ser Thr Thr Leu Asp Asn
             35   40   45

Leu Thr Ala Asn Lys Pro Ser Ser Ala Ile Thr Val Ile Asp His Ser
         50   55   60

5221

```
Pro Ala Asn Ser Ser Pro Arg Gly Lys Trp Gln Cys Arg Ile Cys Glu
65                  70              75                  80

Asp Met Phe Asp Ser Gln Glu Tyr Val Lys Gln His Cys Met Ser Leu
                85              90                  95

Ala Ser His Lys Phe His Arg Tyr Ser Cys Ala His Cys Arg Lys Pro
            100             105             110

Phe His Lys Ile Glu Thr Leu Tyr Arg His Cys Gln Asp Glu His Asp
            115             120             125

Asn Glu Ile Lys Ile Lys Tyr Phe Cys Gly Leu Cys Asp Leu Ile Phe
    130             135             140

Asn Val Glu Glu
145
```

```
<210> 5941
<211> 268
<212> PRT
<213> Homo sapiens

<400> 5941
Pro Gly Arg Pro Thr Arg Pro Arg Thr Arg Gly Ile Asn Lys Leu Ile
  1           5               10              15

Arg Ile Gly Arg Asn Glu Cys Val Val Val Ile Arg Val Asp Lys Glu
            20              25              30

Lys Gly Tyr Ile Asp Leu Ser Lys Arg Arg Val Ser Pro Glu Glu Ala
        35              40              45

Ile Lys Cys Glu Asp Lys Phe Thr Lys Ser Lys Thr Val Tyr Ser Ile
    50              55              60

Leu Arg His Val Ala Glu Val Leu Glu Tyr Thr Lys Asp Glu Gln Leu
65              70              75                  80

Glu Ser Leu Phe Gln Arg Thr Ala Trp Val Phe Asp Asp Lys Tyr Lys
                85              90                  95

Arg Pro Gly Tyr Gly Ala Tyr Asp Ala Phe Lys His Ala Val Ser Asp
            100             105             110

Pro Ser Ile Leu Asp Ser Leu Asp Leu Asn Glu Asp Glu Arg Glu Val
            115             120             125

Leu Ile Asn Asn Ile Asn Arg Arg Leu Thr Pro Gln Ala Val Lys Ile
```

5222

```
          130                 135                 140
Arg Ala Asp Ile Glu Val Ala Cys Tyr Gly Tyr Glu Gly Ile Asp Ala
145                 150                 155                 160

Val Lys Glu Ala Leu Arg Ala Gly Leu Asn Cys Ser Thr Glu Asn Met
                165                 170                 175

Pro Ile Lys Ile Asn Leu Ile Ala Pro Pro Arg Tyr Val Met Thr Thr
                180                 185                 190

Thr Thr Leu Glu Arg Thr Glu Gly Leu Ser Val Leu Ser Gln Ala Met
            195                 200                 205

Ala Val Ile Lys Glu Lys Ile Glu Glu Lys Arg Gly Val Phe Asn Val
        210                 215                 220

Gln Met Glu Pro Lys Val Val Thr Asp Thr Asp Glu Thr Glu Leu Ala
225                 230                 235                 240

Arg Gln Met Glu Arg Leu Glu Arg Glu Asn Ala Glu Val Asp Gly Asp
                245                 250                 255

Asp Asp Ala Glu Glu Met Glu Ala Lys Ala Glu Asp
            260                 265
```

<210> 5942
<211> 249
<212> PRT
<213> Homo sapiens

<400> 5942
```
Ser Arg Glu Ile Asp Ile Ile His Val Ile Lys Asn Met Gly Phe Asn
1               5                  10                  15

Leu Thr Phe His Leu Ser Tyr Lys Phe Arg Leu Leu Leu Leu Leu Thr
                20                  25                  30

Leu Cys Leu Thr Val Val Gly Trp Ala Thr Ser Asn Tyr Phe Val Gly
            35                  40                  45

Ala Ile Gln Glu Ile Pro Lys Ala Lys Glu Phe Met Ala Asn Phe His
        50                  55                  60

Lys Thr Leu Ile Leu Gly Lys Gly Lys Thr Leu Thr Asn Glu Ala Ser
65                  70                  75                  80

Thr Lys Lys Val Glu Leu Asp Asn Cys Pro Ser Val Ser Pro Tyr Leu
                85                  90                  95
```

Arg Gly Gln Ser Lys Leu Ile Phe Lys Pro Asp Leu Thr Leu Glu Glu
            100   105   110

Val Gln Ala Glu Asn Pro Lys Val Ser Arg Gly Arg Tyr Arg Pro Gln
            115   120   125

Glu Cys Lys Ala Leu Gln Arg Val Ala Ile Leu Val Pro His Arg Asn
        130   135   140

Arg Glu Lys His Leu Met Tyr Leu Leu Glu His Leu His Pro Phe Leu
145   150   155   160

Gln Arg Gln Gln Leu Asp Tyr Gly Ile Tyr Val Ile His Gln Ala Glu
                165   170   175

Gly Lys Lys Phe Asn Arg Ala Lys Leu Leu Asn Val Gly Tyr Leu Glu
            180   185   190

Ala Leu Lys Glu Glu Asn Trp Asp Cys Phe Ile Phe His Asp Val Thr
            195   200   205

Trp Tyr Pro Arg Met Thr Leu Thr Phe Thr Ser Val Arg Ser Ile Pro
    210   215   220

Ser Ile Trp Trp Leu Ala Gly Thr Ala Leu Gly Thr Gly Tyr Val Thr
225   230   235   240

Val Asp Ile Leu Gly Val Leu Leu Pro
                245

<210> 5943
<211> 25
<212> PRT
<213> Homo sapiens

<400> 5943
Gln Ala Pro Arg Arg Pro Ser Pro Ala Ser Leu Cys Gly Pro Arg Arg
 1   5   10   15

Pro Ala Ala Pro Glu Leu Leu Thr Val
            20   25

<210> 5944
<211> 70
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (46)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5944
Gln Gly Gly Asp Pro Trp Val Val Arg Gln Leu Trp Val Asn Phe Val
 1   5   10   15

Ser Thr Leu Ser Arg Gly Lys Phe Gly Leu Ser Pro Gly Val His Thr
            20   25   30

Ala Ala Ala Thr Gln Cys Ala Thr Tyr His Phe Phe Leu Xaa Cys Phe
            35   40   45

Val Leu Phe Leu Lys Asp His Phe Ile Leu Lys Arg Lys Ala Asp Pro
       50   55   60

Ser Lys His Glu Ser Ile
65   70

<210> 5945
<211> 409
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (3)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5945
Pro Val Xaa Pro Arg Val Arg Arg Arg Ala Lys Val Gln Gln Gly
 1   5   10   15

Ala Val Gly Arg Ala Arg Arg Phe Pro Ala Arg Val Ser Ala Arg Gly
            20   25   30

Ser Ala Pro Gly Pro Gly Leu Gly Gly Ala Gly Ala Leu Asp Pro Pro
            35   40   45

Ala Val Val Ala Glu Ser Val Ser Ser Leu Thr Ile Ala Asp Ala Phe
       50   55   60

Ile Ala Ala Gly Glu Ser Ser Ala Pro Thr Pro Pro Arg Pro Ala Leu
65   70   75   80

Pro Arg Arg Phe Ile Cys Ser Phe Pro Asp Cys Ser Ala Asn Tyr Ser

5225

```
            85                    90                    95

Lys Ala Trp Lys Leu Asp Ala His Leu Cys Lys His Thr Gly Glu Arg
            100               105               110

Pro Phe Val Cys Asp Tyr Glu Gly Cys Gly Lys Ala Phe Ile Arg Asp
            115               120               125

Tyr His Leu Ser Arg His Ile Leu Thr His Thr Gly Glu Lys Pro Phe
    130               135               140

Val Cys Ala Ala Asn Gly Cys Asp Gln Lys Phe Asn Thr Lys Ser Asn
145               150               155               160

Leu Lys Lys His Phe Glu Arg Lys His Glu Asn Gln Gln Lys Gln Tyr
                165               170               175

Ile Cys Ser Phe Glu Asp Cys Lys Lys Thr Phe Lys Lys His Gln Gln
                180               185               190

Leu Lys Ile His Gln Cys Gln His Thr Asn Glu Pro Leu Phe Lys Cys
            195               200               205

Thr Gln Glu Gly Cys Gly Lys His Phe Ala Ser Pro Ser Lys Leu Lys
    210               215               220

Arg His Ala Lys Ala His Glu Gly Tyr Val Cys Gln Lys Gly Cys Ser
225               230               235               240

Phe Val Ala Lys Thr Trp Thr Glu Leu Leu Lys His Val Arg Glu Thr
                245               250               255

His Lys Glu Glu Ile Leu Cys Glu Val Cys Arg Lys Thr Phe Lys Arg
            260               265               270

Lys Asp Tyr Leu Lys Gln His Met Lys Thr His Ala Pro Glu Arg Asp
            275               280               285

Val Cys Arg Cys Pro Arg Glu Gly Cys Gly Arg Thr Tyr Thr Thr Val
    290               295               300

Phe Asn Leu Gln Ser His Ile Leu Ser Phe His Glu Glu Ser Arg Pro
305               310               315               320

Phe Val Cys Glu His Ala Gly Cys Gly Lys Thr Phe Ala Met Lys Gln
                325               330               335

Ser Leu Thr Arg His Ala Val Val His Asp Pro Asp Lys Lys Lys Met
            340               345               350

Lys Leu Lys Val Lys Lys Ser Arg Glu Lys Arg Ser Leu Ala Ser His
```

5226

```
            355                 360                 365
   Leu Ser Gly Tyr Ile Pro Pro Lys Arg Lys Gln Gly Gln Gly Leu Ser
            370                 375                 380

   Leu Cys Gln Asn Gly Glu Ser Pro Asn Cys Val Glu Asp Lys Met Leu
   385                 390                 395                 400

   Ser Thr Val Ala Val Leu Thr Leu Gly
                   405
```

```
<210> 5946
<211> 84
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (73)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (81)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5946
Lys Arg Met Ala Ala Leu Phe Leu Lys Arg Leu Thr Leu Gln Thr Val
   1               5               10                  15

Lys Ser Glu Asn Ser Cys Ile Arg Cys Phe Gly Lys His Ile Leu Gln
                20              25                  30

Lys Thr Ala Pro Ala Gln Leu Ser Pro Ile Ala Ser Ala Pro Arg Leu
                35              40                  45

Ser Phe Leu Ile His Ala Lys Ala Phe Ser Thr Ala Glu Asp Thr Gln
       50              55              60

Asn Glu Gly Lys Lys Thr Lys Lys Xaa Lys Thr Ala Phe Ser Asn Val
   65              70                  75                  80

Xaa Lys Lys Asn
```

```
<210> 5947
<211> 288
```

5227

<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (78)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (79)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5947
Asp Val Ile Arg Arg Thr Val Glu Glu Arg Lys Leu Lys Leu Glu Met
  1   5   10   15

Glu Lys Gln Glu Phe Glu Gln Leu Arg Gln Glu Met Gly Glu Glu Glu
             20   25   30

Glu Glu Asn Glu Thr Phe Gly Leu Ser Arg Glu Tyr Glu Glu Leu Ile
             35   40   45

Lys Leu Lys Arg Ser Gly Ser Ile Gln Ala Lys Asn Leu Lys Ser Lys
        50   55   60

Phe Glu Lys Ile Gly Gln Leu Ser Glu Lys Glu Ile Gln Xaa Xaa Ile
 65   70   75   80

Glu Glu Glu Arg Ala Arg Arg Arg Ala Ile Asp Leu Glu Ile Lys Glu
             85   90   95

Arg Glu Ala Glu Asn Phe His Glu Glu Asp Asp Val Asp Val Arg Pro
            100   105   110

Ala Arg Lys Ser Glu Ala Pro Phe Thr His Lys Val Asn Met Lys Ala
            115   120   125

Arg Phe Glu Gln Met Ala Lys Ala Arg Glu Glu Glu Gln Arg Arg
            130   135   140

Ile Glu Glu Gln Lys Leu Leu Arg Met Gln Phe Glu Gln Arg Glu Ile
145   150   155   160

Asp Ala Ala Leu Gln Lys Lys Arg Glu Glu Glu Glu Glu Glu Glu Gly
                165   170   175

Ser Ile Met Asn Gly Ser Thr Ala Glu Asp Glu Glu Gln Thr Arg Ser
                180   185   190

Gly Ala Pro Trp Phe Lys Lys Pro Leu Lys Asn Thr Ser Val Val Asp

5228

```
        195                    200                    205

Ser Glu Pro Val Arg Phe Thr Val Lys Val Thr Gly Glu Pro Lys Pro
    210                 215                 220

Glu Ile Thr Trp Trp Phe Glu Gly Glu Ile Leu Gln Asp Gly Glu Asp
225                 230                 235                 240

Tyr Gln Tyr Ile Glu Arg Gly Glu Thr Tyr Cys Leu Tyr Leu Pro Glu
                245                 250                 255

Thr Phe Pro Glu Asp Gly Gly Glu Tyr Met Cys Lys Ala Val Asn Asn
            260                 265                 270

Lys Gly Ser Ala Ala Ser Thr Cys Ile Leu Thr Ile Glu Ser Lys Asn
        275                 280                 285
```

```
<210> 5948
<211> 98
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (10)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (15)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (25)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (31)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (66)
<223> Xaa equals any of the naturally occurring L-amino acids
```

5229

<400> 5948
Trp His Tyr Gly Met Tyr Gly Gln Ala Xaa Pro Cys Gln Glu Xaa Ile
1   5   10   15

Pro Gly Met Val Glu Ser Phe Ile Xaa Asn Gly Trp Phe Ser Xaa Tyr
            20   25   30

Ala Lys Arg Pro Met Ser Asn Pro Leu Leu Leu Ile Pro Ala Ala Trp
        35   40   45

Gly Leu Val Pro Val Val Pro Gln Lys Cys Gly Pro Arg Thr Gln Pro
    50   55   60

Val Xaa Ala Ser Ser Gly Asn Leu Val Lys Lys Cys Lys Leu Leu Gly
65   70   75   80

Pro Thr Leu Asn Leu Leu Asn His Lys Leu Cys Phe Asn Lys Gln Pro
            85   90   95

Ala Leu

<210> 5949
<211> 138
<212> PRT
<213> Homo sapiens

<400> 5949
Val Pro Asp Phe Gln Gly Gln Gln Phe Ile Leu Glu Lys Gly Asp Tyr
1   5   10   15

Pro Arg Trp Ser Ala Trp Ser Gly Ser Ser Ser His Asn Ser Asn Gln
            20   25   30

Leu Leu Ser Phe Arg Pro Val Leu Cys Ala Asn His Asn Asp Ser Arg
            35   40   45

Val Thr Leu Phe Glu Gly Asp Asn Phe Gln Gly Cys Lys Phe Asp Leu
    50   55   60

Val Asp Asp Tyr Pro Ser Leu Pro Ser Met Gly Trp Ala Ser Lys Asp
65   70   75   80

Val Gly Ser Leu Lys Val Ser Ser Gly Ala Trp Val Ala Tyr Gln Tyr
            85   90   95

Pro Gly Tyr Arg Gly Tyr Gln Tyr Val Leu Glu Arg Asp Arg His Ser
        100   105   110

5230

```
Gly Glu Phe Cys Thr Tyr Gly Glu Leu Gly Thr Gln Ala His Thr Gly
        115                 120                 125

Gln Leu Gln Ser Ile Arg Arg Val Gln His
    130                 135
```

<210> 5950
<211> 196
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (158)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5950
```
Lys Lys Asp Phe Phe Gly Lys Ser Asp Pro Phe Leu Val Phe Tyr Arg
  1               5                 10                  15

Ser Asn Glu Asp Gly Thr Phe Thr Ile Cys His Lys Thr Glu Val Val
            20                  25                  30

Lys Asn Thr Leu Asn Pro Val Trp Gln Pro Phe Ser Ile Pro Val Arg
        35                  40                  45

Ala Leu Cys Asn Gly Asp Tyr Asp Arg Thr Val Lys Ile Asp Val Tyr
    50                  55                  60

Asp Trp Asp Arg Asp Gly Ser His Asp Phe Ile Gly Glu Phe Thr Thr
 65                 70                  75                  80

Ser Tyr Arg Glu Leu Ser Lys Ala Gln Asn Gln Phe Thr Val Tyr Glu
                85                  90                  95

Val Leu Asn Pro Arg Lys Lys Cys Lys Lys Lys Tyr Val Asn Ser
            100                 105                 110

Gly Thr Val Thr Leu Leu Ser Phe Ser Val Asp Ser Glu Phe Thr Phe
        115                 120                 125

Val Asp Tyr Ile Lys Gly Gly Thr Gln Leu Asn Phe Thr Val Ala Ile
        130                 135                 140

Asp Phe Thr Ala Ser Asn Gly Asn Pro Leu Gln Pro Thr Xaa Leu His
145                 150                 155                 160

Tyr Met Ser Pro Tyr Gln Leu Ser Ala Tyr Ala Met Ala Leu Lys Ala
```

5231

```
                    165                    170                    175
Val Gly Glu Ile Ile Gln Asp Tyr Asp Ser Asp Lys Leu Phe Pro Ala
            180                    185                    190

Tyr Gly Phe Gly
        195



<210> 5951
<211> 124
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (80)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5951
Lys Glu His Leu Met Cys Trp Ala Phe Tyr Arg Leu Thr Leu Thr Ser
  1                 5                  10                  15

Gln Ala Glu Leu Tyr Thr Phe Ser Phe Thr Thr Ile Ser Ile Leu Ile
            20                  25                  30

Asn Tyr Gly Phe Met Leu Leu Lys Thr Ile Tyr Asn Ala Asp His Tyr
            35                  40                  45

Tyr Lys Cys Val Val Leu Thr Asn Cys Thr Glu Thr Ala Leu Ser Leu
        50                  55                  60

Tyr Ser Val Trp Ile Phe Gly Glu Asn Asn Lys Cys Ser Gln Glu Xaa
 65                 70                  75                  80

Leu Leu Arg Gly Arg Leu Cys Glu Trp Ile Thr Leu Lys Ala Ala Phe
                85                  90                  95

Glu Thr Pro Val Ser Gly Ile Ser Cys Ile Leu Ala Trp Arg Pro Asp
            100                 105                 110

Val Asn Leu Thr Ser Ser Lys Asn Thr Arg Phe Pro
            115                 120



<210> 5952
<211> 129
<212> PRT
<213> Homo sapiens
```

```
<220>
<221> SITE
<222> (118)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5952
Thr Phe Ala Gly Leu Cys His Ile Pro Leu Ala Val Ser Ser Glu Glu
 1               5               10              15

Ala Pro Phe Ala Leu Gly Asn Gly Ser Val Ser His Trp Phe Ile Ser
            20              25              30

Leu Glu Leu Phe Gly Ser Gln Ile Cys Phe Phe Glu Asn Leu Ser Trp
        35              40              45

Gly Arg Leu Gln Val Val Asn Arg Gly Val Gly Val Gly Gly Gly Val
    50              55              60

His Tyr Leu Gly Leu Leu Gly Ala Ser Arg Phe Ser Gly Arg Arg Ile
65              70              75              80

His Cys Val Leu Leu Leu Phe Pro Trp Pro Gly Leu Pro Ala Ser Leu
            85              90              95

Cys His Pro Ala Trp Gly Lys Ala Pro Thr Gly Ile Val Ser Pro Leu
            100             105             110

His Ala Ser Leu Ala Xaa Lys Ser Gln Lys Lys Ser Lys Thr Gly Arg
        115             120             125

Lys
```

```
<210> 5953
<211> 179
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (21)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (99)
<223> Xaa equals any of the naturally occurring L-amino acids
```

5233

```
<220>
<221> SITE
<222> (175)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5953
Val Leu Glu Pro Gln Asn Val Asp Pro Ser Met Val Gln Met Thr Phe
  1           5                  10                  15

Leu Asp Asp Val Xaa His Ser Leu Leu Lys Gly Glu Asn Ile Gly Ile
            20              25                  30

Thr Ser Arg Arg Arg Ser Arg Ala Asn Gln Asn Val Asn Ala Val His
        35                  40                  45

Ser His Tyr Thr Arg Ala Gln Ala Asn Ser Pro Arg Pro Ala Met Asn
    50                  55                  60

Ser Gln Ala Ala Val Pro Lys Gln Asn Thr His Gln Gln Gln Gln Gln
65                  70                  75                      80

Arg Ser Ile Arg Pro Asn Lys Arg Lys Gly Ser Asp Ser Ser Ile Pro
            85                  90                  95

Asp Glu Xaa Lys Met Lys Glu Glu Lys Tyr Asp Tyr Ile Ser Arg Gly
            100                 105                 110

Glu Asn Pro Lys Gly Lys Asn Lys His Leu Met Asn Lys Arg Arg Lys
            115                 120                 125

Pro Glu Glu Asp Glu Lys Lys Leu Asn Met Lys Arg Leu Arg Thr Asp
            130                 135                 140

Asn Val Ser Asp Phe Ser Glu Ser Ser Asp Ser Glu Asn Ser Asn Lys
145                 150                 155                 160

Arg Ile Ile Asp Asn Ser Ser Glu Gln Lys Pro Glu Asn Glu Xaa Lys
                165                 170                 175

Lys Lys Tyr


<210> 5954
<211> 273
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
```

5234

<222> (32)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5954
Ala Gly Phe Cys Val Val Gln Leu Arg Thr Cys Phe Ser Arg Gln Arg
1   5   10   15

Phe Lys Ile Ser Gly Asp Gly Ile Arg Asn Gly Asn Ala Glu Arg Xaa
                20   25   30

Gly Arg Gly Gly Leu Tyr Pro Gly His Pro Gln Gly Gly Arg Arg Ala
        35   40   45

Lys Lys Arg Gln Ala Glu Gln Leu Ser Ala Ala Gly Glu Gly Gly Asp
    50   55   60

Ala Gly Arg Met Asp Thr Glu Glu Ala Arg Pro Ala Lys Arg Pro Val
65   70   75   80

Phe Pro Pro Leu Cys Gly Asp Gly Leu Leu Ser Gly Lys Glu Glu Thr
                85   90   95

Arg Lys Ile Pro Val Pro Ala Asn Arg Tyr Thr Pro Leu Lys Glu Asn
            100   105   110

Trp Met Lys Ile Phe Thr Pro Ile Val Glu His Leu Gly Leu Gln Ile
        115   120   125

Arg Phe Asn Leu Lys Ser Arg Asn Val Glu Ile Arg Thr Cys Lys Glu
    130   135   140

Thr Lys Asp Val Ser Ala Leu Thr Lys Ala Ala Asp Phe Val Lys Ala
145   150   155   160

Phe Ile Leu Gly Phe Gln Val Glu Asp Ala Leu Ala Leu Ile Arg Leu
                165   170   175

Asp Asp Leu Phe Leu Glu Ser Phe Glu Ile Thr Asp Val Lys Pro Leu
            180   185   190

Lys Gly Asp His Leu Ser Arg Ala Ile Gly Arg Ile Ala Gly Lys Gly
            195   200   205

Gly Lys Thr Lys Phe Thr Ile Glu Asn Val Thr Arg Thr Arg Ile Val
    210   215   220

Leu Ala Asp Val Lys Val His Ile Leu Gly Ser Phe Gln Asn Ile Lys
225   230   235   240

Met Ala Arg Thr Ala Ile Cys Asn Leu Ile Leu Gly Asn Pro Pro Ser
                245   250   255

5235

Lys Val Tyr Gly Asn Ile Arg Ala Val Ala Ser Arg Ser Ala Asp Arg
            260   265   270

Phe

<210> 5955
<211> 92
<212> PRT
<213> Homo sapiens

<400> 5955
Arg Met Glu Arg Ser Leu Lys Gly Ile Phe Ile Lys Gln Val Leu Glu
  1   5   10   15

Asp Ser Pro Ala Gly Lys Thr Asn Ala Leu Lys Thr Gly Asp Lys Ile
            20   25   30

Leu Glu Val Ser Gly Val Asp Leu Gln Asn Ala Ser His Ser Glu Ala
            35   40   45

Val Glu Ala Ile Lys Asn Ala Gly Asn Pro Val Val Phe Ile Val Gln
      50   55   60

Ser Leu Ser Ser Thr Pro Arg Val Ile Pro Asn Val His Asn Lys Ala
  65   70   75   80

Asn Lys Ile Thr Gly Asn Gln Asn Gln Asp Thr Gln
            85   90

<210> 5956
<211> 203
<212> PRT
<213> Homo sapiens

<400> 5956
Asn Ser Ala Arg Gly Asp Gln Glu Ser Thr Cys Ala Glu Val Leu Val
  1   5   10   15

Ile Trp Ser Leu Phe Pro Ser Gly Tyr Gln Leu Pro Ser Ala Ala Gln
            20   25   30

Ala Val Val Pro Glu Ala Arg Gly Arg Ser Gln Thr Cys Gly Asn Phe
            35   40   45

Ala Val Tyr Leu Gln Gly Cys Cys Phe Gln Gln Asp Pro Lys Leu Glu

5236

```
                50                    55                    60
       Lys Glu Glu Glu Glu Thr Asp Pro Ile Ser Ala Arg Ser His Cys Ile
       65                    70                    75                    80

       Gln Arg Arg Ile Ser Lys Lys Glu Lys Lys Glu Gly Arg Glu Val Asp
                             85                    90                    95

       Arg Tyr Lys Met Lys Ser Cys Gln Lys Met Glu Gly Lys Pro Glu Asn
                        100                   105                   110

       Glu Ser Glu Pro Lys His Glu Glu Glu Pro Lys Pro Glu Glu Lys Pro
                    115                   120                   125

       Glu Glu Glu Glu Lys Leu Glu Glu Glu Ala Lys Ala Lys Gly Thr Phe
                    130                   135                   140

       Arg Glu Arg Leu Ile Gln Ser Leu Gln Glu Phe Lys Glu Asp Ile His
       145                   150                   155                   160

       Asn Arg His Leu Ser Asn Glu Asp Met Phe Arg Glu Val Asp Glu Ile
                        165                   170                   175

       Asp Glu Ile Arg Arg Val Arg Asn Lys Leu Ile Val Met Arg Trp Lys
                        180                   185                   190

       Val Asn Arg Asn His Pro Tyr Pro Tyr Leu Met
                    195                   200
```

```
<210> 5957
<211> 77
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (42)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (59)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (60)
<223> Xaa equals any of the naturally occurring L-amino acids
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5237

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<220>
<221> SITE
<222> (71)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5957
Trp Ala Leu Cys Thr Asn Cys Phe Ser Pro Ser Pro Leu Asp Leu Arg
 1               5                  10                  15

Ile Lys His Pro Val Leu Lys Leu Ile Cys Cys Ser Phe Val Asn Ile
             20              25              30

Ser Leu Arg Phe Ser Leu Arg Val Arg Xaa Asn Ile Ser Glu Pro Lys
         35              40              45

Val Pro Tyr Thr Thr Leu Ala Tyr Tyr Ser Xaa Xaa Phe Lys Gly Phe
     50              55              60

Arg Ile Phe Gly Ser His Xaa Lys Ser Val Phe Ile Met
 65              70              75
```

```
<210> 5958
<211> 32
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (20)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5958
Cys Asn Asp His Lys Ile Ala Trp Lys Ile Val Ile Gln Ile Ser Thr
 1               5                  10                  15

Met Asn Ser Xaa Pro Lys Phe Phe Phe Pro Met Ile Lys Val Val Asp
             20              25              30
```

```
<210> 5959
<211> 56
<212> PRT
<213> Homo sapiens

<400> 5959
```

5238

Asn Gln Val Tyr Phe Leu Met Ala Phe Ile Thr Leu Thr His Lys Val
1   5   10   15

Thr Asp Gln Cys Ile Ser Tyr Gly Tyr Arg Pro Arg Ala Leu Glu Gly
                20   25   30

Gly Gly Leu Leu Lys His Met Gln Lys Lys Lys Lys Lys Phe Cys
            35   40   45

Ile Tyr Asn His Phe Asn Leu Leu
    50   55

<210> 5960
<211> 82
<212> PRT
<213> Homo sapiens

<400> 5960
Gly Tyr Val Cys Glu Phe Leu Gly Asn Leu Ser Val Leu Asp Ala Ser
1   5   10   15

Leu Gln Gln Gly Pro Leu Leu Ala Met Asp Gly Pro Gly Arg Ser Leu
                20   25   30

Glu Ile Thr His Leu Lys Asn Glu Gly Pro Met Lys Val Phe Gly Cys
            35   40   45

Leu Leu Met Pro Leu Leu Leu Thr Leu Leu Phe Ala Tyr Phe Gln Asn
    50   55   60

Ile Ile Lys Cys Gln His Ile Ile Ser Glu Arg Gln Val Gly Val Gly
65   70   75   80

Glu Lys

<210> 5961
<211> 77
<212> PRT
<213> Homo sapiens

<400> 5961
Phe Val Thr Cys His Asn Thr Lys Gln Val Thr Glu Glu Thr Ile Met
1   5   10   15

Gly Pro Arg Gly Arg Cys Leu Tyr His Val Asp Lys Ile Gln Ser Ser
                20   25   30

5239

```
Leu Phe Gln Thr Lys His Phe Ala Leu Glu Thr Phe Glu Thr Ser Met
         35              40              45

Ala Val Glu Tyr Ser Arg Asp Asp Leu Lys Ile Leu Glu Ala Val Glu
         50              55              60

Val Pro Val Val Gly Ala Arg His Gly Ser Gly Asp Pro
65                  70              75
```

```
<210> 5962
<211> 170
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (170)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5962
Ala Asp Ala Trp Val Asp Tyr Ser Glu Asp Lys Ser Ser Trp Asp Asn
 1           5               10              15

Gln Gln Glu Asn Pro Pro Pro Thr Lys Lys Ile Gly Lys Lys Pro Val
         20              25              30

Ala Lys Met Pro Leu Arg Arg Pro Lys Met Lys Lys Thr Pro Glu Lys
         35              40              45

Leu Asp Asn Thr Pro Ala Ser Pro Pro Arg Ser Pro Ala Glu Pro Asn
         50              55              60

Asp Ile Pro Ile Ala Lys Gly Thr Tyr Thr Phe Asp Ile Asp Lys Trp
65                  70              75              80

Asp Asp Pro Asn Phe Asn Pro Phe Ser Ser Thr Ser Lys Met Gln Glu
                 85              90              95

Ser Pro Lys Leu Pro Gln Gln Ser Tyr Asn Phe Asp Pro Asp Thr Cys
             100             105             110

Asp Glu Ser Val Asp Pro Phe Lys Thr Ser Ser Lys Thr Pro Ser Ser
         115             120             125

Pro Ser Lys Ser Pro Ala Ser Phe Glu Ile Pro Ala Ser Ala Met Glu
         130             135             140

Ala Asn Gly Val Asp Gly Asp Gly Leu Asn Lys Pro Ala Lys Lys Lys
```

5240

```
     145                    150                 155                    160

     Lys Thr Pro Leu Lys Thr Glu His Leu Xaa
                       165                 170
```

```
<210> 5963
<211> 55
<212> PRT
<213> Homo sapiens

<400> 5963
Leu Ile Ala Gly Ile Gln His Gly Cys Gln Asp Ile Gly Ala Arg Ser
 1               5                  10                   15

Leu Ser Val Leu Arg Ser Met Met Tyr Ser Gly Glu Leu Lys Phe Glu
                20               25                   30

Lys Arg Thr Met Ser Ala Gln Ile Glu Gly Gly Val His Gly Leu His
             35                  40                   45

Ser Tyr Glu Lys Arg Leu Tyr
        50                55
```

```
<210> 5964
<211> 493
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (112)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (135)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (156)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (165)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>
<221> SITE
<222> (359)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (434)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (436)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (468)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (471)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (473)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (488)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5964
Val Ile Arg Gly Gly Ser Asn Arg Arg Gly Glu Gly Glu Val Ile Pro
  1               5                  10                  15

Glu Glu Ser Arg Leu Gly Arg Thr Arg Trp Pro Gly Asn Arg Val Ile
             20                  25                  30

Arg Glu Met Lys Pro Thr Gly Thr Asp Pro Arg Ile Leu Ser Ile Ala
             35                  40                  45

Ala Glu Val Ala Lys Ser Pro Glu Gln Asn Val Pro Val Ile Leu Leu
        50                  55                  60

Lys Leu Lys Glu Ile Ile Asn Ile Thr Pro Leu Gly Ser Ser Glu Leu
 65                  70                  75                  80
```

5242

```
Lys Lys Ile Lys Gln Asp Ile Tyr Cys Tyr Asp Leu Ile Gln Tyr Cys
            85                  90                  95

Leu Leu Val Leu Ser Gln Asp Tyr Ser Arg Ile Gln Gly Gly Trp Xaa
            100                 105                 110

Thr Ile Ser Gln Leu Thr Gln Ile Leu Ser His Cys Cys Val Gly Leu
            115                 120                 125

Glu Pro Gly Glu Asp Ala Xaa Glu Phe Tyr Asn Glu Leu Leu Pro Ser
            130                 135                 140

Ala Ala Glu Asn Phe Leu Val Leu Gly Arg Gln Xaa Gln Thr Cys Phe
145                 150                 155                 160

Ile Asn Ala Ala Xaa Ala Glu Glu Lys Asp Glu Leu Leu His Phe Phe
                165                 170                 175

Gln Ile Val Thr Asp Ser Leu Phe Trp Leu Leu Gly Gly His Val Glu
            180                 185                 190

Leu Ile Gln Asn Val Leu Gln Ser Asp His Phe Leu His Leu Leu Gln
            195                 200                 205

Ala Asp Asn Val Gln Ile Gly Ser Ala Val Met Met Met Leu Gln Asn
            210                 215                 220

Ile Leu Gln Ile Asn Ser Gly Asp Leu Leu Arg Ile Gly Arg Lys Ala
225                 230                 235                 240

Leu Tyr Ser Ile Leu Asp Glu Val Ile Phe Lys Leu Phe Ser Thr Pro
                245                 250                 255

Ser Pro Val Ile Arg Ser Thr Ala Thr Lys Leu Leu Leu Leu Met Ala
            260                 265                 270

Glu Ser His Gln Glu Ile Leu Ile Leu Leu Arg Gln Ser Thr Cys Tyr
            275                 280                 285

Lys Gly Leu Arg Arg Leu Leu Ser Lys Gln Glu Thr Gly Thr Glu Phe
            290                 295                 300

Ser Gln Glu Leu Arg Gln Leu Val Gly Leu Leu Ser Pro Met Val Tyr
305                 310                 315                 320

Gln Glu Val Glu Glu Gln Lys Leu His Gln Ala Ala Cys Leu Ile Gln
            325                 330                 335

Ala Tyr Trp Lys Gly Phe Gln Thr Arg Lys Arg Leu Lys Lys Leu Pro
            340                 345                 350
```

5243

```
Ser Ala Val Ile Ala Leu Xaa Arg Ser Phe Arg Ser Lys Arg Ser Lys
        355             360             365

Met Leu Leu Glu Ile Asn Arg Gln Lys Glu Glu Glu Asp Leu Lys Leu
        370             375             380

Gln Leu Gln Leu Gln Arg Gln Arg Ala Met Arg Leu Ser Arg Glu Leu
385             390             395             400

Gln Leu Ser Met Leu Glu Ile Val His Pro Gly Gln Val Glu Lys His
            405             410             415

Tyr Arg Glu Met Gly Arg Glu Ile Ser Thr Asp Tyr Pro Glu Thr Leu
        420             425             430

Glu Xaa Val Xaa Gly Lys Glu Lys Phe Ser Pro Thr Glu Ala Val Ser
    435             440             445

His Arg Ser Ile Lys Ala Thr Val Thr Leu Gln Lys Ser Lys Arg Phe
    450             455             460

Lys Phe Leu Xaa Glu Ile Xaa Arg Xaa Glu Lys Arg Lys Leu Phe Cys
465             470             475             480

Leu Pro Trp Ala Lys Gly Pro Xaa Lys Glu Thr Ser Thr
            485             490
```

```
<210> 5965
<211> 47
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (5)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5965
Leu Phe Val Cys Xaa Phe Leu Val Ala Arg Ser Asp Pro Arg Ile Phe
  1             5             10             15

Leu Leu Ser Arg Glu Thr Arg Arg Ile Met Arg Leu Phe Leu Val Ala
            20             25             30

Phe Gln Glu Tyr Glu Glu Lys Asn Gly Ser Gln Ser Gly Phe Glu
        35             40             45
```

5244

```
<210> 5966
<211> 65
<212> PRT
<213> Homo sapiens

<400> 5966
Leu His Lys Thr Leu Val Arg Tyr Gln Leu Leu His Arg Glu Ser Ser
 1               5                  10                  15

Tyr Thr Ile Pro Tyr Ile Phe Ile Tyr Leu Leu Phe Tyr Tyr Ser Arg
            20                  25                  30

Ile Thr Lys Leu Asp Ala Leu Ser Gln Phe Phe Ala Thr Glu Asn Tyr
        35                  40                  45

Leu Phe Leu Leu Pro Phe His Thr Pro Cys Ile Tyr Asp Gln Pro Leu
    50                  55                  60

His
65
```

```
<210> 5967
<211> 67
<212> PRT
<213> Homo sapiens

<400> 5967
Ala Lys Asn Ile Lys Gly Arg Glu Ile Gly Ile Gln Gly Asp Ser Val
 1               5                  10                  15

Gln Glu Ser Lys Pro Gly Ile Cys Leu Cys Gly Arg Pro Asn His Tyr
            20                  25                  30

Tyr Leu Asn Pro Leu Arg Lys Ala Phe Pro Ala Phe His Asn Ser Gly
        35                  40                  45

Ser Ser Phe Ile Lys Trp Glu Thr His Asn Cys Pro Thr Tyr Leu Thr
    50                  55                  60

Gly Val Leu
65
```

```
<210> 5968
<211> 124
<212> PRT
<213> Homo sapiens
```

5245

<400> 5968
Leu Glu Thr Ser Ala Val Tyr Ile Ser Leu Tyr Ser Phe Phe Ser Pro
1   5   10   15

Leu Pro Met Met Phe Arg Asn Thr Thr Ile Leu Phe Ala Lys His Ser
            20   25   30

Asn Tyr Leu Ile Ser Lys Gln Val Leu Glu Tyr His Arg Asn His Lys
            35   40   45

Thr Ala His Gln Asn Met Pro His Ser Thr Ser Ser Glu Gln Ser Gly
        50   55   60

Lys Arg Thr Ser Arg Ser Trp Lys Ser Gly Leu Val Leu Ser Arg Ser
65   70   75   80

Thr Lys Asn Leu Asn Ile Ser Asp Asn His Asn Thr Ser Leu Thr Trp
                85   90   95

Glu Arg Ala Val Ile Ile Phe His Arg Gly Gln Asp Gly Ser Leu Asp
            100   105   110

Glu Glu Val Asp Met Pro Phe Pro Asn Ser Arg Lys
        115   120

<210> 5969
<211> 87
<212> PRT
<213> Homo sapiens

<400> 5969
Ile Cys Pro Arg Ser Pro Ser Lys Val Ser Val Ala Leu Arg Val Arg
1   5   10   15

Thr Leu Ile Arg Leu Gly Arg Val Leu Glu Ser Leu Arg Arg Gln Glu
            20   25   30

Glu Cys Ala Glu Leu Ser Val Ser Gly Arg Leu Ile His Cys Trp Ala
            35   40   45

His Ile Lys Ala Pro Met Gly Ser Arg Pro Asp Cys Thr Trp Leu Phe
        50   55   60

Cys Trp Lys Lys Ser Met Ala Ala Gln Arg Thr Lys Ile Ser Ser Gly
65   70   75   80

Lys Ala Ser Phe Asp Cys Gln
                85

5246

```
<210> 5970
<211> 57
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (4)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5970
Met Glu Arg Xaa Gln Val Phe Asn Ser Thr Asn Ile Phe Phe Ser Phe
 1               5                  10                  15


Val Pro Phe Phe Cys Leu Leu Tyr Thr Asp Ile Pro Thr Leu Ala Thr
             20                  25                  30


Ala Gln Arg Gly Ser Tyr Leu Arg Asn Thr Ala Asp Phe Glu Tyr Leu
         35                  40                  45


Val Leu Gln Ser His Leu Ser Glu Ala
     50                  55
```

```
<210> 5971
<211> 184
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (183)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5971
Glu Lys Lys Lys Thr Leu Lys Lys Lys Ile Pro Lys Tyr His Gln Pro
 1               5                  10                  15


Arg Lys Glu Lys Arg Arg Gln Lys Pro Leu Gly Gly Phe Gly Lys Glu
             20                  25                  30


Ser Lys Glu Lys Glu Pro Lys Thr Lys Gly Lys Asp Ala Lys Asp Gly
         35                  40                  45


Lys Lys Asp Ser Ser Ala Ala Gln Pro Gly Val Ala Phe Ser Val Asp
     50                  55                  60
```

5247

Asn Thr Ile Lys Arg Pro Asn Pro Ala Pro Gly Thr Arg Lys Lys Ser
65   70   75   80

Ser Asn Ala Glu Val Ile Lys Glu Leu Asn Lys Cys Arg Glu Glu Asn
                85   90   95

Ser Met Arg Leu Asp Leu Ser Lys Arg Ser Ile His Ile Leu Pro Ser
            100   105   110

Ser Ile Lys Glu Leu Thr Gln Leu Thr Glu Leu Tyr Leu Tyr Ser Asn
            115   120   125

Lys Leu Gln Ser Leu Pro Ala Glu Val Gly Cys Leu Val Asn Leu Met
        130   135   140

Thr Leu Ala Leu Ser Glu Asn Ser Leu Thr Ser Leu Pro Asp Ser Leu
145   150   155   160

Asp Asn Leu Lys Lys Leu Arg Met Leu Asp Leu Arg His Asn Lys Leu
            165   170   175

Arg Glu Ile Pro Ser Val Xaa Val
            180

<210> 5972
<211> 58
<212> PRT
<213> Homo sapiens

<400> 5972
Ala His Pro Thr Arg Asn Tyr Val Lys Lys Lys Phe Lys Lys Glu Phe
1   5   10   15

Lys Gly Asp Tyr Ser Val Thr Val Thr Pro Gly Lys Leu Arg Thr Leu
            20   25   30

Cys Glu Ile Asp Trp Pro Ala Leu Glu Val Gly Trp Pro Ser Glu Gly
            35   40   45

Ser Leu Asp Arg Ser Leu Val Ser Lys Val
        50   55

<210> 5973
<211> 35
<212> PRT
<213> Homo sapiens

5248

```
<400> 5973
Gly Gln Gln Phe Glu Thr Ser Leu Thr Ile Ser Thr Lys Cys Thr Lys
 1               5                  10                  15

Val Ser Trp Ala Trp Trp Arg Ala Pro Val Ile Pro Ala Thr Trp Glu
            20                  25                  30

Thr Asp Ala
        35




<210> 5974
<211> 86
<212> PRT
<213> Homo sapiens

<400> 5974
Arg Asn Ser Gly Phe Cys Cys Asn Arg Phe Ile Phe Leu Leu Phe Ser
 1               5                  10                  15

Pro Ile Leu Ala Gln Ser Gly Ala Ile Val Leu Leu Val Arg Pro Ser
            20                  25                  30

Leu Lys Met Arg Ser Arg Glu Ala Gly Pro Lys Leu Arg Arg Ile Gln
        35                  40                  45

Glu Pro Ala Asn Gly Ser Pro Gly Ala Val Ser Glu Thr Gly Gly Tyr
    50                  55                  60

Arg Glu Glu Arg Leu Ser Asp Ala Glu Ile Met Gly Lys Leu Leu Ala
 65                  70                  75                  80

Trp Leu Ala Val Gly Met
                85




<210> 5975
<211> 53
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (22)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (46)
```

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5975
Ile Phe Ser Asn Leu Val Phe Phe Tyr Ile Ile Ile Ala Ser Leu Lys
 1   5   10   15

Ile Val Leu Gln Ala Xaa His Gly Trp Val Thr Pro Val Tyr Leu Thr
                20   25   30

Leu Trp Glu Ala Glu Ala Gly Lys His Leu Lys Ser Gly Xaa Gln Asn
            35   40   45

Asn Pro Gly His Trp
        50

<210> 5976
<211> 27
<212> PRT
<213> Homo sapiens

<400> 5976
Cys Leu Gly Ala Tyr Ala Asp Tyr Ser Leu Arg Gly Gly Val Glu Arg
 1   5   10   15

Arg Arg Arg Tyr Ala Gly Arg Arg Val Leu Cys
                20   25

<210> 5977
<211> 91
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (52)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (69)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (86)
<223> Xaa equals any of the naturally occurring L-amino acids

5250

<400> 5977
Val Ser Arg Leu Val Ser Lys Glu Phe Ser Lys Ser Trp Ser Cys Gly
 1   5   10   15

Gly Cys Ser Tyr Ala Ala Gly Ala Val Thr Glu Arg Gln Glu Gly Leu
            20   25   30

Gly Gly Lys Gly Arg Arg Leu Asn Gln Ala Pro Ala Trp Thr Trp Ala
            35   40   45

Cys Val Leu Xaa Ser His Leu Ser Ser Arg Thr Gln Val Gly Lys Ser
    50   55   60

Leu Ser Gly His Xaa Pro Leu Gly Gly Val Gly Leu Ser Val Pro Phe
65   70   75   80

Leu Ala Val Thr Ser Xaa Cys Ala Arg Val Glu
                85   90

<210> 5978
<211> 224
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (107)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (117)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (127)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (129)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (135)
<223> Xaa equals any of the naturally occurring L-amino acids

5251

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<220>
<221> SITE
<222> (140)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (151)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (152)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (213)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (216)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5978
Ala Leu Val Ser Val Leu Thr Lys Glu Tyr Glu Asp Ala Val Ser Ile
  1               5                  10                  15

Ala Thr Ala Val Leu Val Val Val Thr Val Ala Phe Ile Gln Glu Tyr
             20                  25                  30

Arg Ser Glu Lys Ser Leu Glu Glu Leu Thr Lys Leu Val Pro Pro Glu
         35                  40                  45

Cys Asn Cys Leu Arg Glu Gly Lys Leu Gln His Leu Leu Ala Arg Glu
     50                  55                  60

Leu Val Pro Gly Asp Val Val Ser Leu Ser Ile Gly Asp Arg Ile Pro
 65                  70                  75                  80

Ala Asp Ile Arg Leu Thr Glu Val Thr Asp Leu Leu Val Asp Glu Ser
             85                  90                  95

Ser Phe Thr Gly Glu Ala Glu Pro Cys Ser Xaa Thr Asp Ser Pro Leu
            100                 105                 110

Thr Gly Gly Gly Xaa Leu Thr Thr Leu Ser Asn Ile Val Phe Xaa Gly
            115                 120                 125

Xaa Leu Val Gln Tyr Gly Xaa Gly Gln Gly Val Xaa Ile Gly Thr Gly
```

5252

```
              130                    135                    140
Glu Ser Ser Gln Phe Gly Xaa Xaa Phe Lys Met Met Gln Ala Glu Glu
145                 150                 155                 160

Thr Pro Lys Thr Pro Leu Gln Lys Ser Met Asp Arg Leu Gly Lys Gln
                165                 170                 175

Leu Thr Leu Phe Ser Phe Gly Ile Ile Gly Leu Ile Met Leu Ile Gly
                180                 185                 190

Trp Ser Gln Gly Lys Gln Leu Leu Ser Met Phe Thr Ile Gly Val Ser
        195                 200                 205

Leu Ala Val Ala Xaa Ile Ser Xaa Gly Ser Ala His Ser Ser Ser Trp
210                 215                 220
```

<210> 5979
<211> 155
<212> PRT
<213> Homo sapiens

<400> 5979
```
Pro Cys Cys Ile Trp Lys Ala Lys Trp Gly His Glu Glu Gly Trp Lys
  1               5                  10                  15

Gly Gln Gly Val Met Ala Ala Tyr Leu Val Ser Pro Thr Pro Pro Val
            20                  25                  30

Leu Gly Glu Pro Ser Cys Tyr Thr Gly Ser Ser Pro Arg Ser Ser Phe
        35                  40                  45

Leu Ser Pro Thr Ser Trp Trp Arg Leu Gln Gly Arg Pro Glu Ser Trp
        50                  55                  60

Thr Glu Arg Val Thr Gly Gly Val Gly Asp Lys His Gln Thr Ser Ile
65                  70                  75                  80

Val Cys Pro Asp Leu Gly Val Ile Gly Gly Met Gly Trp Glu Arg Val
                85                  90                  95

Ser Trp Tyr Ser His Gly Leu Ile Phe Phe Val Ser Ile Pro Phe Ile
            100                 105                 110

Ser Leu Cys Leu Asn Arg Gly Gly Gly Val Val Thr Gly Asn Lys Asp
        115                 120                 125
```

5253

```
Leu Arg Ser Ser Ala Pro Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
    130             135             140

Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
145             150             155
```

```
<210> 5980
<211> 90
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (22)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (41)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5980
Ile Arg His Glu Gly Thr Leu Pro Leu Gln Arg Val Arg Ala Leu Leu
    1               5               10              15

His Pro Gln Arg Ser Xaa Ala Lys His Leu Arg Gly His Ala Ser Val
                20              25              30

Arg Pro Cys Arg Cys Asn Glu Cys Xaa Lys Ser Phe Ser Arg Arg Asp
            35              40              45

His Leu Val Arg His Gln Arg Thr His Thr Gly Glu Lys Pro Phe Thr
    50              55              60

Cys Pro Thr Cys Gly Lys Ser Phe Ser Arg Gly Tyr His Leu Ile Arg
65              70              75              80

His Gln Arg Thr His Ser Glu Lys Thr Ser
                85              90
```

```
<210> 5981
<211> 54
<212> PRT
<213> Homo sapiens

<220>
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<221> SITE
<222> (41)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (46)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5981
Phe Ser Ser Pro Gly Val Val Gly Arg Cys Lys Leu Lys Gly Thr Leu
 1   5   10   15

Gly Gly Gly Gly Arg Gly Glu Asp Asp Ser Asp Pro Ser Pro Val Gly
             20   25   30

Val Arg Ile Thr Gln Glu Leu Arg Xaa Arg Glu Glu Gly Xaa Arg Arg
         35   40   45

Leu Gln Leu Leu Gln Gly
     50

<210> 5982
<211> 96
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (47)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5982
Gly Arg Gln Pro Ala Pro Leu Val Pro Pro Cys Ser Ser Ser His Tyr
 1   5   10   15

His Arg Pro His Thr Leu Thr Arg Thr Leu Thr His Arg Ser Leu Gln
             20   25   30

Arg Met Arg Trp Gly Tyr Asp Arg Ser Leu Arg Leu Val Ser Xaa Ser
         35   40   45

Leu Leu Gln Pro Pro Pro Gly Phe Gln Pro Ile Leu Phe Ala Ala Gly
     50   55   60

Val Pro Thr Leu Pro Tyr Ser Gln Leu Leu Phe Pro Ala Asp Gly Glu
 65   70   75   80

Met Asp Ser Ala Ala Tyr Pro Pro Thr Pro Leu Gln Gly Val Glu Asp

5255

85   90   95

<210> 5983
<211> 78
<212> PRT
<213> Homo sapiens

<400> 5983
Glu Lys Thr Gln Val Cys Asp Ile Ser Val Ile Pro Lys Asn Ile Leu
 1   5   10   15

Gly Phe Leu Phe Val Phe Leu Phe Phe Gly Phe Phe Phe Phe Thr Ala
            20   25   30

Glu Asn Trp Trp Tyr Phe His Ile His Ser Val Ser Ile Gln Phe Gln
        35   40   45

Tyr Pro His Leu Met Arg Lys Lys Cys Phe Thr Asn Glu Gly Gly Ile
    50   55   60

Leu Lys Leu Ala Val Met Leu Gly Trp Arg Lys Phe Gly Ile
65   70   75

<210> 5984
<211> 87
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (47)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5984
Lys Ile Thr Met Trp Met Ala Val Ser His Ile Thr Asp Val Glu Ser
 1   5   10   15

Ile Ile Leu Tyr Leu Tyr Phe Gln Ile Asn Lys Phe Val Lys Gly Phe
            20   25   30

His Pro Leu Leu Trp Ser Arg Lys Met Leu Glu Ile Tyr Ile Xaa Ile
        35   40   45

Asp Thr Tyr Ile Cys Ile Tyr Ile Lys Lys Ile Leu Thr Thr Lys Val

5256

```
              50                  55                    60

Pro Glu Pro Pro Ser Lys Val Leu Tyr Tyr Cys Ile Leu Tyr Ile Met
 65                  70                    75                  80

Tyr His Pro Met Trp Asn Leu
                 85
```

```
<210> 5985
<211> 101
<212> PRT
<213> Homo sapiens

<400> 5985
Asp Lys Ser Ile Lys Asn Lys Ala Glu Arg Glu Arg Arg Val Arg Glu
  1               5                  10                   15

Leu Asn Ser Ser Asn Thr Lys Lys Phe Leu Glu Glu Arg Lys Arg Leu
             20                  25                   30

Ala Met Lys Gln Ser Lys Glu Met Asp Gln Leu Lys Lys Val Gln Leu
             35                  40                   45

Glu His Leu Glu Phe Leu Glu Lys Gln Asn Glu Gln Leu Leu Lys Ser
          50                  55                   60

Cys His Ala Val Ser Gln Thr Gln Gly Glu Gly Asp Ala Ala Asp Gly
 65                  70                    75                  80

Glu Ile Gly Ser Arg Asp Gly Pro Gln Thr Ser Asn Ser Ser Met Lys
                 85                    90                   95

Leu Gln Asn Ala Asn
                100
```

```
<210> 5986
<211> 216
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (96)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5986
Lys Ser Ser Arg Gly Asn Thr Gln Ala Thr Ser His Ser Phe Asp Val
```

5257

| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

```
        1                   5                       10                          15
Arg Val Leu Thr Gln Leu Leu Leu Asn Ser Asp His Arg Ser Thr Ala
            20                  25                  30

Thr Val Gln Ile Cys Ser Gly Ser Val Asn Leu Lys Gly Ala Val Lys
            35                  40                  45

Cys Arg Ala Tyr Ile His Ser Ser Lys Pro Lys Val Lys Asp Ala Val
        50                  55                  60

Gln Ala Val Lys Arg Asp Ile Leu Asn Thr Val Ala Asp Arg Cys Glu
65                  70                  75                      80

Met Leu Phe Glu Asp Leu Leu Leu Asn Glu Ile Pro Glu Lys Lys Xaa
                85                  90                  95

Ser Glu Lys Glu Phe His Val Leu Pro Tyr Arg Val Phe Val Pro Leu
                100                 105                 110

Pro Gly Ser Thr Val Met Leu Cys Asp Tyr Lys Phe Asp Asp Glu Ser
            115                 120                 125

Ala Glu Glu Ile Arg Asp His Phe Met Glu Met Leu Asp His Thr Ile
            130                 135                 140

Gln Ile Glu Asp Leu Glu Ile Ala Glu Glu Thr Asn Thr Ala Cys Met
145                 150                 155                 160

Ser Ser Ser Met Asn Ser Gln Ala Ser Leu Asp Asn Thr Asp Asp Glu
                165                 170                 175

Gln Pro Lys Gln Pro Ile Lys Thr Thr Met Leu Leu Lys Ile Gln Gln
            180                 185                 190

Asn Ile Gly Val Ile Ala Ala Phe Thr Val Ala Val Leu Ala Ala Gly
            195                 200                 205

Ile Ser Phe His Tyr Phe Ser Asp
    210                 215
```

```
<210> 5987
<211> 67
<212> PRT
<213> Homo sapiens

<400> 5987
Pro Phe Leu Val Ser Val Phe Pro Gly Glu Asn Glu Ala Lys Gln Glu
    1               5                   10                  15
```

5258

```
Phe Gly Phe Leu Leu Met Ser Ser Tyr Thr Ile His Ser Val Asn Phe
             20                  25                  30

Glu Lys Ile Tyr Pro Pro Phe Ser Leu Leu Gly Asp Ile Asn Tyr Ser
             35                  40                  45

Gln Glu Glu Tyr Asn Glu Leu Tyr Ser Tyr Phe Asp Leu Leu Lys Arg
     50                  55                  60

Cys Tyr Gln
65
```

```
<210> 5988
<211> 162
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (74)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (93)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (94)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (96)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5988
Pro Ala Glu Leu Lys Cys Ala Val Thr Ser Gln Cys Glu Phe Leu Pro
 1               5                  10                  15

Asn Ser Arg Ala Tyr His Leu Lys Lys Glu Arg Thr Glu Glu Gln Thr
             20                  25                  30

Lys Val Leu Arg Asn Glu Thr His Leu Phe Ser Leu Lys Ala Leu Arg
             35                  40                  45

Gly Gly Arg Arg Pro Ala Gln Ala Gly Gly Gly Phe Gly Gln Ser Glu
```

5259

```
        50                  55                  60
Asp Pro Ala Arg Thr Leu Val Arg Trp Xaa Ala Ala His Leu Leu Arg
65        ·              70              75                  80

Ile Leu Leu Glu Ser Cys Ser Pro Arg Gly Leu Leu Xaa Xaa Trp Xaa
            ·        85              90                  95

Lys Glu Ala Ala Trp Cys Gly Val Thr Gln Ile Ser Ile Pro Ile Cys
            100             105             110

Cys Thr Phe Thr Leu Gln Gly Thr Cys Phe Lys Thr Asp Pro Gln Gln
        115             120             125

Val Leu Glu Lys Cys Ile Gln Ser Glu Asp Val Cys Val Ser Val Tyr
        130             135             140

Ile Gln Ser Ser Val Thr His Ala Pro Gln Ile Ala Ala Lys Ile Pro
145             150             155             160

Arg His
```

```
<210> 5989
<211> 87
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (80)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (86)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5989
Asn Cys Ala Phe Ser Gly Leu Leu Ser Ser Ile Pro Ser Phe Ser Leu
 1               5                  10                  15

Leu Ser Ser Phe Gln His Val Thr Val Lys Ala Phe Ser Leu Ile Phe
            20              25              30

Tyr His Cys Glu Tyr Val Pro Phe Glu Asn Pro Phe Ala Val Ile Phe
        35              40              45

Val Gly Phe Gly Glu Glu Ala Val Val Asn Ala Cys Ile Ile Leu Ser
```

5260

```
        50                    55                    60

Ser Lys Cys Ser Met Leu Ala Leu Leu Ile Ser Gly Asp Val Arg Xaa
 65                    70                    75                    80

Gln Leu Leu Ser Leu Xaa Lys
                85



<210> 5990
<211> 71
<212> PRT
<213> Homo sapiens

<400> 5990
Arg Pro Ala Glu Asp Val Leu Gln Val Arg Glu Thr Gly Pro Gly Asn
  1              5                    10                   15

Pro Ala Val Thr Glu Asp Tyr Ile Glu Phe Glu Asn Val Gly Ile Phe
            20                   25                   30

Glu Asn Ala Pro Pro Lys Lys Leu Leu Met Ser Ser Gly Asn Val Arg
            35                   40                   45

Arg Leu Ile Tyr Thr Asp Thr Ala Glu Glu Lys Gly Arg Arg Ile Lys
     50                   55                   60

Asp Pro Val Leu Leu Pro Gly
 65                   70



<210> 5991
<211> 217
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (51)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (104)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (120)
```

5261

<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (131)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (137)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5991
Gly Tyr Trp Thr Phe Asp Met Glu Cys Tyr Lys Lys Tyr Arg Lys Val
 1   5   10   15

Trp Gly Ile Tyr Asp Cys Gln Gln Pro Met Leu Ala Ile Thr Asp Pro
            20   25   30

Asp Met Ile Lys Thr Val Leu Val Lys Glu Cys Tyr Ser Val Phe Thr
            35   40   45

Asn Arg Xaa Pro Phe Gly Pro Val Gly Phe Met Lys Asn Ala Ile Ser
    50   55   60

Ile Ala Glu Asp Glu Glu Trp Lys Arg Ile Arg Ser Leu Leu Ser Pro
65   70   75   80

Thr Phe Thr Ser Gly Lys Leu Lys Glu Met Phe Pro Ile Ile Ala Gln
                85   90   95

Tyr Gly Asp Val Leu Val Arg Xaa Leu Arg Arg Glu Ala Glu Lys Gly
            100   105   110

Lys Pro Val Thr Leu Lys Asp Xaa Phe Gly Ala Tyr Ser Met Asp Val
            115   120   125

Ile Thr Xaa Thr Ser Phe Gly Val Xaa Ile Asp Ser Leu Asn Asn Pro
    130   135   140

Gln Asp Pro Phe Val Glu Ser Thr Lys Lys Phe Leu Lys Phe Gly Phe
145   150   155   160

Leu Asp Pro Leu Phe Leu Ser Ile Ile Leu Phe Pro Phe Leu Thr Pro
                165   170   175

Val Phe Glu Ala Leu Asn Val Ser Leu Phe Pro Lys Asp Thr Ile Asn
            180   185   190

Phe Leu Ser Lys Ser Val Asn Arg Met Lys Lys Ser Arg Leu Asn Asp
            195   200   205

5262

```
Lys Gln Lys Val Lys Ser Asp Gly Gly
    210                 215
```

```
<210> 5992
<211> 77
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (27)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (29)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5992
Val Pro Pro Ala Cys Cys Ala Ser Arg Val Ala Arg Leu Gly Phe Ser
 1               5                  10                  15

Arg Cys Thr Cys Pro Arg Trp Pro Gly Pro Xaa Ala Xaa Arg Ala Ala
            20                  25                  30

Ala Gly Ala Leu Pro Arg Gly Gln Val Arg Ile Trp Pro Arg Ser His
            35                  40                  45

Pro Ser Ser Thr Ala Arg Thr Pro His Ser Leu Pro Gln Ser Ile Cys
    50                  55                  60

Leu Ser Pro Met Gly Lys Leu Ile Asn Phe Ala Leu Asp
65                  70                  75
```

```
<210> 5993
<211> 68
<212> PRT
<213> Homo sapiens

<400> 5993
Lys Met Leu Asn Arg Phe His Asp Cys Leu Leu Glu Asp Phe Lys Val
 1               5                  10                  15

His Cys Gly Ser Ser Arg Arg Asn Pro Val Asn His Ser Ser His Leu
            20                  25                  30
```

5263

```
Pro Thr Gly Leu Phe Ser Asn Gly Ala Ser Cys Glu Ala Ser Gly Phe
        35                  40              45

Phe Cys Cys Cys Tyr Leu Phe Phe Phe Phe Asn Ala Leu Glu Asn Thr
    50              55              60

Ala Leu Gly Tyr
 65
```

```
<210> 5994
<211> 128
<212> PRT
<213> Homo sapiens

<400> 5994
Trp Ile Pro Arg Ala Ala Gly Ile Arg His Glu Leu Leu Ser Pro Ala
 1               5               10              15

Leu Pro Cys Thr Val His Ser Ser Ser Thr Met Ala Ser Arg Thr Pro
            20              25              30

Arg Asn Cys Ala Val Leu Lys Gly Glu Val Asp Leu Thr Ala Leu Ala
        35              40              45

Lys Glu Leu Arg Ala Val Glu Asp Val Arg Pro Pro His Lys Val Thr
    50              55              60

Asp Tyr Ser Ser Ser Ser Glu Glu Ser Gly Thr Thr Asp Glu Glu Asp
 65              70              75              80

Asp Asp Val Glu Gln Glu Gly Ala Asp Glu Ser Thr Ser Gly Pro Glu
                85              90              95

Asp Thr Arg Ala Ala Ser Ser Leu Asn Leu Ser Asn Gly Glu Thr Glu
            100             105             110

Ser Val Lys Thr Met Ile Val His Asp Asp Val Glu Ser Glu Pro Ala
        115             120             125
```

```
<210> 5995
<211> 52
<212> PRT
<213> Homo sapiens
```

5264

<400> 5995
His Ser Leu Lys Tyr Ile Tyr Leu Ile Thr Phe Tyr Asn Lys Glu Leu
1   5   10   15

Leu Ser Pro Asn Val Ile Ser Ala His Phe Glu Ile Pro Cys Tyr Arg
            20   25   30

Trp Ser Leu Gln Thr Arg Lys Tyr Ser Ser Tyr Tyr Val Tyr Thr Leu
            35   40   45

Val Leu Val Leu
    50

<210> 5996
<211> 75
<212> PRT
<213> Homo sapiens

<400> 5996
Ile Ser Pro Gly Gln Ser Gly Met Leu Thr Gly Thr Asn Val Arg Asn
1   5   10   15

Cys Ile Val His Cys Thr Cys Cys Pro Val Pro Gln Ala Cys Gln Cys
            20   25   30

Leu Glu Ile Leu Phe Gly Leu Leu Lys Pro Leu Phe Ile Glu Asn Phe
            35   40   45

Cys Pro Tyr Arg Ser Val Cys Met Gly Leu Gly Lys Ser Thr Cys Val
    50   55   60

Tyr Leu Ser Ser Glu Ala Gln Ile His Ser Asn
65   70   75

<210> 5997
<211> 63
<212> PRT
<213> Homo sapiens

<400> 5997
Pro Asp Leu Phe Ala His Arg Glu Val Pro Leu Ser Leu His Gly Leu
1   5   10   15

Ser Asp Leu Ile Pro Pro His Ser Gln Phe Gln Val Val Glu Gln Asp
            20   25   30

Glu Ala Ala Pro Ser Pro Leu Pro His Pro Asp Ser Ala Ala Glu Phe

5265

```
              35                    40                    45

      Ile Pro Gln Glu Arg Gly Ser Thr Asp Ser Val His Ala Cys Gly
          50                    55                    60



      <210> 5998
      <211> 226
      <212> PRT
      <213> Homo sapiens

      <220>
      <221> SITE
      <222> (1)
      <223> Xaa equals any of the naturally occurring L-amino acids

      <220>
      <221> SITE
      <222> (6)
      <223> Xaa equals any of the naturally occurring L-amino acids

      <220>
      <221> SITE
      <222> (125)
      <223> Xaa equals any of the naturally occurring L-amino acids

      <220>
      <221> SITE
      <222> (170)
      <223> Xaa equals any of the naturally occurring L-amino acids

      <220>
      <221> SITE
      <222> (216)
      <223> Xaa equals any of the naturally occurring L-amino acids

      <220>
      <221> SITE
      <222> (218)
      <223> Xaa equals any of the naturally occurring L-amino acids

      <400> 5998
      Xaa Ser Ala Ser Leu Xaa Glu Gln Lys Leu Glu Leu His Arg Gly Gly
        1               5                  10                  15


      Gly Arg Ser Arg Thr Ser Gly Ser Pro Gly Leu Gln Glu Phe Gly Thr
                    20                  25                  30


      Arg Ser Gly Gly Pro Arg Leu Pro Gln Ala Gln Lys Thr Ala Ala Leu
                35                  40                  45
```

5266


```
Pro Arg Thr Arg Gly Ala Gly Leu Leu Glu Ser Glu Leu Arg Asp Gly
    50              55          60
```

```
Ser Gly Lys Lys Val Ala Val Ala Asp Val Gln Phe Gly Pro Met Arg
    65          70              75              80
```

```
Phe His Gln Asp Gln Leu Gln Val Leu Leu Val Phe Thr Lys Glu Asp
                85              90              95
```

```
Asn Gln Cys Asn Gly Phe Cys Arg Ala Cys Glu Lys Ala Gly Phe Lys
            100         105             110
```

```
Cys Thr Val Thr Lys Glu Ala Gln Ala Val Leu Ala Xaa Phe Leu Asp
        115             120             125
```

```
Lys His His Asp Ile Ile Ile Ile Asp His Arg Asn Pro Arg Gln Leu
    130             135             140
```

```
Asp Ala Glu Ala Leu Cys Arg Ser Ile Arg Ser Ser Lys Leu Ser Glu
145             150             155             160
```

```
Asn Thr Val Ile Val Gly Val Val Arg Xaa Val Asp Arg Glu Glu Leu
            165             170             175
```

```
Ser Val Met Pro Phe Ile Ser Ala Gly Phe Thr Arg Arg Tyr Val Glu
            180             185             190
```

```
Asn Pro Asn Ile Met Ala Cys Tyr Asn Glu Leu Leu Gln Leu Glu Phe
    195             200             205
```

```
Gly Glu Gly Ala Ile Thr Thr Xaa Thr Xaa Gly Leu Leu Leu Lys Tyr
    210             215             220
```

```
Ser Leu
225
```


```
<210> 5999
<211> 51
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5999
Gly Xaa Val Gly Pro Ser Leu Val Ser Arg Ile Glu Asn Ile Gln Asn
```

5267

```
1                    5                     10                    15

Asp Ile Ser Leu Val Ser Phe Glu Gly Asn Asn Gln Arg Trp Ser Thr
            20                    25                    30

Gln Leu Leu Val Leu Leu Phe Thr Ile Ser His Leu Val Gln Ser Gly
        35                    40                    45

Ser Tyr Ile
    50
```

```
<210> 6000
<211> 83
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (27)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (35)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (37)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (39)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (44)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6000
Val Leu Asn Ser Met Leu Lys Ser Asn Trp Ile Trp Ser Arg Pro Thr
    1                5                     10                    15

Pro Arg Val Val Ser Gly Val Phe Phe Gln Xaa Leu Ser Gln Thr Thr
                20                    25                    30

Gln Val Xaa Leu Xaa Leu Xaa Ala Ala Leu Trp Xaa Gly Val Glu Gly
```

5268

```
              35                    40                    45
Gly Gly Gln Gln Met His Cys Arg Val Ile Phe Leu Gly Met Val Phe
       50                    55                    60
Lys Lys Pro Glu Ile Phe Thr Arg Thr Ser Lys Thr Arg Ser Gly Glu
   65                    70                    75                    80
Leu Gly Arg
```

```
<210> 6001
<211> 146
<212> PRT
<213> Homo sapiens

<400> 6001
Arg Cys Pro Ile Ala Ser Glu Val Pro Trp Thr Ile Thr Glu Ala Glu
   1               5                    10                    15

Leu Arg Val Thr Leu Thr Val Glu Gly Lys Ser Ile Pro Cys Leu Ile
                20                    25                    30

Asp Thr Gly Ala Thr His Ser Thr Leu Pro Ser Phe Gln Gly Pro Val
             35                    40                    45

Ser Leu Ala Pro Ile Thr Val Val Gly Ile Asp Gly Gln Ala Ser Lys
       50                    55                    60

Pro Leu Lys Thr Pro Pro Leu Trp Cys Gln Leu Gly Gln His Ser Phe
   65                    70                    75                    80

Met His Ser Phe Leu Val Ile Pro Thr Cys Pro Leu Pro Leu Leu Gly
                85                    90                    95

Arg Asn Ile Leu Thr Lys Leu Ser Ala Ser Leu Thr Ile Pro Gly Val
                100                   105                   110

Gln Leu His Leu Ile Ala Ala Leu Leu Pro Asn Pro Lys Pro Pro Leu
             115                   120                   125

Cys Pro Leu Thr Ser Pro Gln Tyr His Pro Leu Pro Gln Asp Leu Pro
       130                   135                   140

Ser Ala
145
```

```
<210> 6002
<211> 111
<212> PRT
<213> Homo sapiens

<400> 6002
Ile Pro Tyr Ser Ala Tyr Ile Lys Ser Lys Met Trp Gly Arg Ser Leu
 1               5                  10                  15

Leu Leu Pro Gly Gly Asp Gly Ser Pro Leu Thr Leu Leu Gly Glu Gly
                20                  25                  30

Gly Ser Cys Trp Pro Val Gly Met Lys Val Leu Ala Pro His Leu Val
            35                  40                  45

Phe Pro Asp Thr Thr Ala Val Gly Cys Trp Gly Ala Pro Leu Gln Pro
     50                  55                  60

Phe Glu Cys Gly Ile Leu Gly Ser Pro Leu Asp Leu Pro Trp Cys Gly
 65                  70                  75                  80

Gln Arg Phe Phe Leu Trp Cys Leu Leu Gly Val Glu Gln Leu Ser Ser
                85                  90                  95

Lys Ser Phe Leu Ser Cys Trp Asp Val Leu Phe Trp Ser Phe Ser
                100                 105                 110
```

```
<210> 6003
<211> 65
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (64)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6003
Arg Trp Ala Leu Asp Leu Leu Ile Leu Val Lys Trp Val Trp Asp Leu
 1               5                  10                  15

Leu Thr Phe Val Leu Arg Arg Asp Arg Pro Gly Lys Glu Leu Gly Glu
                20                  25                  30

Val Ser Ser Lys Glu Arg Gly Val Gly Thr Arg Met Glu Glu Ser Gly
            35                  40                  45

Leu Gln Ile Ala Phe Thr Ser Pro Phe Phe Leu Glu Ser Leu Ser Xaa
     50                  55                  60
```

5270

Arg
65

<210> 6004
<211> 427
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (301)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6004
Ala Ala Cys Cys Phe Ser Cys Trp Ala Ser Ser Gly Phe Ala Phe Val
 1   5   10   15

Ala Ser Glu Pro Leu Ala Phe Lys Pro Leu Ser Leu Leu Leu Pro His
            20   25   30

Thr Pro Leu Ser Leu Thr Pro Leu Phe Cys Cys Pro Val Thr Cys Pro
            35   40   45

Lys Leu Cys Pro Glu Leu Arg Thr Phe Pro Phe Leu Ser Leu Glu Pro
      50   55   60

Phe Phe Asp Ser Thr Lys Pro Ser Trp Tyr Pro Gly Met Thr Arg Leu
65   70   75   80

Leu Asp Ala Glu Trp Trp Arg Arg Ser Glu Ala Gly His Leu Arg Arg
                85   90   95

Gln Val Ala Ala Val Leu Phe Phe Pro Glu Gly Thr Cys Ser Asn Lys
            100   105   110

Lys Ala Leu Leu Lys Phe Lys Pro Gly Ala Phe Ile Ala Gly Val Pro
            115   120   125

Val Gln Pro Val Leu Ile Arg Tyr Pro Asn Ser Leu Asp Thr Thr Ser
            130   135   140

Trp Ala Trp Arg Gly Pro Gly Val Leu Lys Val Leu Trp Leu Thr Ala
145   150   155   160

Ser Gln Pro Cys Ser Ile Val Asp Val Glu Phe Leu Pro Val Tyr His
                165   170   175

Pro Ser Pro Glu Glu Ser Arg Asp Pro Thr Leu Tyr Ala Asn Asn Val

5271

```
                 180                    185                    190

    Gln Arg Val Met Ala Gln Ala Leu Gly Ile Pro Ala Thr Glu Cys Glu
            195                 200                 205

    Phe Val Gly Ser Leu Pro Val Ile Val Val Gly Arg Leu Lys Val Ala
            210                 215                 220

    Leu Glu Pro Gln Leu Trp Glu Leu Gly Lys Val Leu Arg Lys Ala Gly
    225                 230                 235                 240

    Leu Ser Ala Gly Tyr Val Asp Ala Gly Ala Glu Pro Gly Arg Ser Arg
                    245                 250                 255

    Met Ile Ser Gln Glu Glu Phe Ala Arg Gln Leu Gln Leu Ser Asp Pro
            260                 265                 270

    Gln Thr Val Ala Gly Ala Phe Gly Tyr Phe Gln Gln Asp Thr Lys Gly
            275                 280                 285

    Leu Val Asp Phe Arg Asp Val Ala Leu Ala Leu Ala Xaa Leu Asp Gly
            290                 295                 300

    Gly Arg Ser Leu Glu Glu Leu Thr Arg Leu Ala Phe Glu Leu Phe Ala
    305                 310                 315                 320

    Glu Glu Gln Ala Glu Gly Pro Asn Arg Leu Leu Tyr Lys Asp Gly Phe
                    325                 330                 335

    Ser Thr Ile Leu His Leu Leu Leu Gly Ser Pro His Pro Ala Ala Thr
            340                 345                 350

    Ala Leu His Ala Glu Leu Cys Gln Ala Gly Ser Ser Gln Gly Leu Ser
            355                 360                 365

    Leu Cys Gln Phe Gln Asn Phe Ser Leu His Asp Pro Leu Tyr Gly Lys
        370                 375                 380

    Leu Phe Ser Thr Tyr Leu Arg Pro Pro His Thr Ser Arg Gly Thr Ser
    385                 390                 395                 400

    Gln Thr Pro Asn Ala Ser Ser Pro Gly Asn Pro Thr Ala Leu Ala Asn
                    405                 410                 415

    Gly Thr Val Gln Ala Pro Lys Gln Lys Gly Asp
            420                 425
```

<210> 6005
<211> 68

5272

```
<212> PRT
<213> Homo sapiens

<400> 6005
Ile Tyr Thr Asn Arg Lys Leu Gly Thr Asn Leu Leu Cys Leu Trp Leu
1               5                   10                  15


Leu Tyr Asn Tyr Gln Gly Lys Gly Asn Leu Pro Ile Lys Tyr Lys Val
            20                  25                  30


Val Lys Phe Lys Ile Thr Ile Ile Asn Asn Val Leu Leu Leu Gln Asn
        35                  40                  45


Glu Met Leu Gly Leu Ile Ile Glu Gly Ser Ser Thr Val Glu Ile Glu
    50                  55                  60


Leu Asn Gly Ser
 65




<210> 6006
<211> 69
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (15)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (17)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6006
Gly Pro Glu Phe Pro Gly Arg Pro Thr Arg Pro Val Lys Leu Xaa Phe
1               5                   10                  15


Xaa Tyr Gln Tyr Met His Val Leu Cys Met Ser Ser Thr Cys Val Asp
            20                  25                  30


Thr Pro Val Asp Val Lys Leu Leu Tyr Asn Ile Asn Ser Met Cys Phe
        35                  40                  45


Tyr Ile Ser Leu Cys Lys Phe Asn Ile Thr Tyr Ala Val Ile Asn His
    50                  55                  60


Leu Phe Tyr Cys Cys
 65
```

```
<210> 6007
<211> 97
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (43)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (72)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (74)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (83)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (85)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (90)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6007
Gln Met Glu Gly Tyr Phe Ser Val Leu Ala Phe Gln Leu Tyr Val Gly
 1               5                  10                  15

Lys Leu Pro Val Leu Leu Gln Val Gln Ser Thr Leu Asp Asp Leu Ser
            20                  25                  30

Ile Asn Tyr Ser Gly Cys Asn Ser Pro Lys Xaa Ser Ser Tyr Ile Phe
            35                  40                  45

Trp Leu Ile Pro Pro His Leu Ser Ile Gln Ser Asp Gly Lys Arg Gly
    50                  55                  60
```

5274

```
Arg Trp Ile Leu Met Ser Cys Xaa Leu Xaa Pro Tyr Phe Gln Val Leu
65              70              75              80

Trp Trp Xaa Arg Xaa Asn Ile Cys Gln Xaa Ser Gly Phe Leu Ala Arg
            85              90              95

Cys
```

```
<210> 6008
<211> 74
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (71)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (74)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6008
Ile Ile Leu Tyr Gln Gly Gln Arg Asp Phe Cys Arg Thr Ser Pro Leu
 1           5               10              15

Glu Glu Leu Ser Leu Gly Arg Asn Thr Arg Ile Asn Ile Ser Thr Tyr
            20              25              30

Ser Ser Pro Lys Asn Phe Pro Pro His Tyr Ser His Leu Pro Ile Asn
            35              40              45

Asn Leu Leu Trp Val Asn Ile Gln His Ser Val Leu Val Gln Ser Ile
        50              55              60

Cys Ser Ala Ile Thr Val Xaa Ser Thr Xaa
65              70
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<210> 6009
<211> 47
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
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<222> (20)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6009
Met Pro Gly Ile Val Cys Lys Gly Ile Val Asp Asn Lys Val Ile Leu
 1   5   10   15

Met Thr Arg Xaa Lys Ser Phe Leu Leu Ser Leu Ile Arg Pro Leu Val
             20   25   30

Gly Trp Gly Val Gly Arg Arg Val Val Leu Thr Glu Ser Phe Lys
         35   40   45

<210> 6010
<211> 150
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (70)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (84)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (115)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (146)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6010
Gly Val Tyr Leu Asn Val Leu Pro Ser Pro Phe Pro Ser Arg Leu Cys
 1   5   10   15

Ser Phe Glu Gly Leu Gly Val Cys Ser Arg Pro Cys Cys Leu Ala Gln
             20   25   30

Asn Met Leu Arg Lys Val Leu Arg Thr His Phe Phe Pro Ile Lys Pro
             35   40   45

Ile Ser Phe Pro Asn His Lys Gly Val Cys Asp Ser Ser Pro Arg Glu

5276

```
           50                      55                      60
Thr Lys Glu Leu Gln Xaa Gly Val Trp Phe Ser Pro Val Gln Thr His
65                      70                      75                      80

Pro Glu Leu Xaa Arg Cys Leu Ser Asn Thr Leu Ser Leu Pro Lys Gln
                    85                      90                      95

Pro Val Gln Thr Phe Ser Leu Gly His Glu Ala Pro Arg Val Leu Pro
                100                     105                     110

Val Pro Xaa Ser Asp Ala Tyr Leu Ser Ala Glu Pro Gln Asn Leu Cys
            115                     120                     125

Ser Gly Asn Ala Val His Leu Leu Ser Val Gly Ser Glu His Ile Val
        130                     135                     140

Leu Xaa Asp Thr Ser Phe
145                     150
```

<210> 6011
<211> 79
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (13)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (60)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (61)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (66)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (77)
<223> Xaa equals any of the naturally occurring L-amino acids

5277

<400> 6011
Val Leu Arg Met Gln His Gly Ser Gly Phe Gly Ile Xaa Phe Asn Ala
1   5   10   15

Thr Asp Ala Leu Arg Cys Val Asn Asn Tyr Gln Gly Met Leu Lys Val
            20   25   30

Ala Cys Ala Glu Glu Trp Gln Glu Ser Arg Thr Glu Gly Glu His Ser
        35   40   45

Lys Glu Val Ile Lys Pro Tyr Asp Trp Thr Tyr Xaa Xaa Asp Tyr Lys
    50   55   60

Gly Xaa Leu Leu Gly Glu Ser Leu Lys Leu Lys Val Xaa Ser Ile
65   70   75

<210> 6012
<211> 81
<212> PRT
<213> Homo sapiens

<400> 6012
Ile Phe Arg Ser Asp Phe Leu Leu His Phe Tyr Leu Thr Lys Glu Thr
1   5   10   15

Gly His Thr Pro Trp Phe Arg Asp Val Val Ile Ala Tyr Leu Pro Val
            20   25   30

Phe Lys Lys Cys Phe Leu Gln Leu Leu Ser Thr Thr Val Leu Ser Leu
        35   40   45

Met Asn Thr Val Val Ser His Pro Asn Ser Cys Thr Glu Ile Ile Ser
    50   55   60

His Glu Ser Phe Ser Asn Ile Ser Asn Glu Ser Phe Ser Asn Leu Gly
65   70   75   80

Ala

<210> 6013
<211> 112
<212> PRT
<213> Homo sapiens

<220>

<221> SITE
<222> (39)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (94)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (98)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (107)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6013
Gln Leu Pro Val Gln Gly His Gly Leu Phe Gly Ala Gln Glu Val Leu
 1   5   10   15

Asn His Val Leu Arg Asp Ile Glu Leu Phe Met Gly Lys Leu Glu Lys
                20   25   30

Ala Gln Ala Lys Thr Ser Xaa Lys Lys Lys Phe Gly Lys Lys Asn Lys
            35   40   45

Asp Gln Gly Gly Leu Thr Gln Ala Gln Tyr Ile Asp Cys Phe Gln Lys
        50   55   60

Ile Lys His Ser Phe Asn Leu Leu Gly Arg Leu Ala Thr Trp Leu Lys
65   70   75   80

Glu Thr Ser Ala Pro Glu Leu Val His Ile Leu Phe Lys Xaa Leu Asn
                85   90   95

Phe Xaa Leu Ala Arg Cys Pro Glu Ala Gly Xaa Ala Ala Gln Val Ile
            100   105   110

<210> 6014
<211> 95
<212> PRT
<213> Homo sapiens

5279

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<220>
<221> SITE
<222> (24)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (54)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (69)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (70)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (78)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (81)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (82)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (83)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (84)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (90)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<221> SITE
<222> (92)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (93)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (94)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6014
Leu Glu Glu Asp Ile Ser Lys Lys Met Asp Lys Asp Glu Glu Ala Leu
 1               5                  10                  15

Lys Ala Ala Gln Ala Glu Leu Xaa Glu Ala Arg Arg Gln Trp His His
            20                  25                  30

Leu Gln Val Glu Ile Glu Ser Leu His Ala Val Glu Arg Gly Leu Glu
        35                  40                  45

Asn Ser Leu His Ala Xaa Glu Gln His Tyr Gln Met Gln Leu Gln Asp
        50                  55                  60

Leu Glu Thr Val Xaa Xaa Gly Leu Glu Lys Glu Leu Gln Xaa Val Lys
65                  70                  75                  80

Xaa Xaa Xaa Xaa Lys Ala Ala Phe Lys Xaa Thr Xaa Xaa Xaa Phe
                85                  90                  95


<210> 6015
<211> 29
<212> PRT
<213> Homo sapiens

<400> 6015
Leu Arg Ala His Thr Val Arg His Glu Glu Lys Val Pro Cys His Val
 1               5                  10                  15

Cys Gly Lys Met Leu Ser Pro Ala Asp Pro Phe Asn Phe
            20                  25


<210> 6016
<211> 53
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5281

<212> PRT
<213> Homo sapiens

<400> 6016
Gln Gly Pro Thr Glu Val Lys Glu Gly Gly Trp Glu Cys Tyr Ser Leu
 1   5   10   15

Glu Trp Arg Cys Asp Phe Ser Arg Trp Lys Val Val Phe Leu Lys Gly
              20   25   30

Ile Gly Arg Ser Arg Phe Leu Leu Ile Gln Ile His Phe Pro Pro Thr
              35   40   45

Glu Gly Arg Asn Tyr
         50

<210> 6017
<211> 29
<212> PRT
<213> Homo sapiens

<400> 6017
Pro Arg Val Val Phe His Leu Asn Leu His Pro Pro Pro Gly Asp
 1   5   10   15

Tyr Phe Glu Ile Asn Leu Arg His Gln Gly Gln Ala Gln
              20   25

<210> 6018
<211> 78
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (33)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (71)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (72)
<223> Xaa equals any of the naturally occurring L-amino acids

5282

<220>
<221> SITE
<222> (73)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6018
Ser Phe His Asn Thr Leu Ala Phe Pro Tyr Leu Tyr Gly Leu Tyr Leu
 1   5   10   15

Val Asn Leu Asn Lys Asn Leu Asp Phe Lys Lys Asn Trp Glu Arg Arg
            20   25   30

Xaa Val Ile Leu Leu Ala Phe Ser Ser Leu Asp Val Gly Ser His Asn
            35   40   45

Ser Asn Ile Glu Gly Lys Phe Cys Phe Cys Lys Ile Gly Leu Lys Leu
        50   55   60

Arg Ser Phe His Glu Arg Xaa Xaa Xaa Thr Cys Thr Ser Ala
65   70   75

<210> 6019
<211> 59
<212> PRT
<213> Homo sapiens

<400> 6019
Ser Ala Thr Cys Leu Phe Glu Val Leu Tyr Gln Ser Val Thr Arg Ala
 1   5   10   15

Phe Cys Val Cys Ala Ile Leu Cys Leu Ser Phe Lys Val Ala Pro Lys
            20   25   30

Val Ser His Leu Ala Phe Gln Gln Gly His Phe Leu Ser Phe Tyr Asn
            35   40   45

Met Gln Tyr Ile Cys Asn Asp Leu Ala Phe Phe
        50   55

<210> 6020
<211> 62
<212> PRT
<213> Homo sapiens

<400> 6020
Arg Ser His Ile Leu Leu Leu Ser Gly Cys Phe Ser Ile Leu Cys Pro

5283

```
  1                    5                    10                   15

Phe Pro Gln Gln Gln Val Gly Pro Arg Leu Cys Thr Ala Leu Arg Cys
            20                   25                   30

Arg Trp Tyr Arg Asp Asn Cys Leu Asn Ser Cys Ala Asp Phe Cys Asn
            35                   40                   45

Ser Ala Val Glu Thr Lys Val Leu Glu Ser Val Leu Ser Met
            50                   55                   60
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<210> 6021
<211> 216
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (39)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6021
Ser Gly Gly Ser Ser Val His Leu Ser Asp Pro Val Ala Pro Ser Ser
  1                    5                    10                   15

Ala Gly Leu Tyr Phe Glu Pro Glu Pro Ile Ser Ser Thr Pro Asn Tyr
            20                   25                   30

Leu Gln Arg Gly Glu Phe Xaa Ser Cys Val Ser Cys Glu Glu Asn Ser
            35                   40                   45

Ser Cys Leu Asp Gln Ile Phe Asp Ser Tyr Leu Gln Thr Glu Met His
            50                   55                   60

Pro Glu Pro Leu Leu Asn Ser Thr Gln Ser Ala Pro His His Phe Pro
 65                   70                   75                   80

Asp Ser Phe Gln Ala Thr Pro Phe Cys Phe Asn Gln Ser Leu Ile Pro
            85                   90                   95

Gly Ser Pro Ser Asn Ser Ser Ile Leu Ser Gly Ser Leu Asp Tyr Ser
            100                  105                  110

Tyr Ser Pro Val Gln Leu Pro Ser Tyr Ala Pro Glu Asn Tyr Asn Ser
            115                  120                  125

Pro Ala Ser Leu Asp Thr Arg Thr Cys Gly Tyr Pro Pro Glu Asp His
            130                  135                  140
```

5284

```
Ser Tyr Gln His Leu Ser Ser His Ala Gln Tyr Ser Cys Phe Ser Ser
145             150             155             160

Ala Thr Thr Ser Ile Cys Tyr Cys Ala Ser Cys Glu Ala Glu Asp Leu
            165             170             175

Asp Ala Leu Gln Ala Ala Glu Tyr Phe Tyr Pro Ser Thr Asp Cys Val
                180             185             190

Asp Phe Ala Pro Ser Ala Ala Ala Thr Ser Asp Phe Tyr Lys Arg Glu
            195             200             205

Thr Asn Cys Asp Ile Cys Tyr Ser
        210             215
```

```
<210> 6022
<211> 43
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (29)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6022
Ser Lys Arg Arg Asp Lys Lys Arg Gly Gly Val Gly Ser Arg Lys Gln
 1               5               10              15

Ser Leu Asn Phe Ser Arg Thr Gln Leu Ser Leu Arg Xaa Asn Phe Leu
            20              25              30

Leu Ser Leu Trp Asp Ala Ile Val Ile Phe Asn
        35              40
```

```
<210> 6023
<211> 55
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (4)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
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```
<222> (9)
<223> Xaa equals any of the naturally occurring L-amino acids


<400> 6023
Pro Pro Cys Xaa Leu Arg Cys Val Xaa Glu Thr Gly Ser Asn Thr Thr
 1               5                  10                  15


His Tyr Arg Glu Ser Trp Tyr Ala Cys Arg Tyr Arg Ser Gly Ile Pro
            20                  25                  30   ·


Gly Ser Thr His Ala Ser Glu Ile Ser Trp Pro Tyr Phe Leu Ser Gly
        35                  40                  45


Asn Leu Leu Thr Met Met Trp
    50                  55



<210> 6024
<211> 83
<212> PRT
<213> Homo sapiens


<220>
<221> SITE
<222> (34)
<223> Xaa equals any of the naturally occurring L-amino acids


<220>
<221> SITE
<222> (43)
<223> Xaa equals any of the naturally occurring L-amino acids


<220>
<221> SITE
<222> (48)
<223> Xaa equals any of the naturally occurring L-amino acids


<220>
<221> SITE
<222> (49)
<223> Xaa equals any of the naturally occurring L-amino acids


<220>
<221> SITE
<222> (58)
<223> Xaa equals any of the naturally occurring L-amino acids


<400> 6024
Asp Ala Ile Lys Val Lys Glu Tyr Asn Asn Leu Leu Asn Ala Leu Gln
 1               5                  10                  15
```

5286

Met Asp Ser Asp Glu Met Lys Lys Ile Leu Ala Glu Asn Ser Arg Lys
　　　　　　20　　　　　　　　　　25　　　　　　　　　　30

Ile Xaa Val Leu Gln Val Asn Glu Lys Ser Xaa Ile Arg Gln Tyr Xaa
　　　　35　　　　　　　　　40　　　　　　　　　45

Xaa Leu Val Glu Leu Glu Arg Gln Leu Xaa Lys Glu Asn Glu Lys Gln
　　50　　　　　　　　　55　　　　　　　　　60

Lys Asn Glu Leu Leu Ser Met Glu Ala Glu Val Cys Glu Lys Ile Gly
65　　　　　　　　　70　　　　　　　　　75　　　　　　　　　80

Cys Leu Gln

<210> 6025
<211> 64
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (3)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (49)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6025
His Val Xaa Asp Val Ile Leu Glu Val Asn Gly Tyr Pro Val Gly Gly
1　　　　　　　5　　　　　　　　　10　　　　　　　　　15

Gln Asn Asp Leu Glu Arg Leu Gln Gln Leu Pro Glu Ala Glu Pro Pro
　　　　　　20　　　　　　　　　25　　　　　　　　　30

Leu Cys Leu Lys Leu Ala Ala Arg Ser Leu Arg Gly Leu Glu Ala Trp
　　　　35　　　　　　　40　　　　　　　　　45

Xaa Pro Pro Gly Ala Ala Glu Asp Trp Ala Leu Ala Ser Asp Leu Leu
　　50　　　　　　　　　55　　　　　　　　　60

5287

```
<210> 6026
<211> 109
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (11)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (91)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (96)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (98)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6026
Gly Ser Ser Ser Leu Ala Gly Trp Leu His Xaa Pro Trp Ala Pro Gln
  1               5                  10                  15

Ile Ile Lys Ser Thr Phe Ser Val Ser Gly Ile Cys Met Thr Ser Leu
               20                  25                  30

Glu Val Pro Cys Trp Val Val Ile Leu Val Ser Asp Gly Thr His Leu
           35                  40                  45

Asn Leu Lys Tyr Phe Cys Gln Gly Ser Gly Gly Phe Met Ala Cys Ser
       50                  55                  60

Ser Pro Ala Leu Leu Gly Arg Leu Gln Arg Cys His Leu Ala Leu Ser
65                  70                  75                  80

Pro Lys Asn Phe Glu Thr Gln Pro Gly Ala Xaa Arg Gly Leu Lys Xaa
               85                  90                  95

Ser Xaa Phe Pro Phe Lys Asn Tyr Gln Lys Ile Arg Pro
           100                 105


<210> 6027
<211> 146
```

5288

```
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (100)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (110)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (144)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6027
Arg Asp Glu Asn Thr Met Lys Asn Ile Phe Ser Lys Lys Arg Lys Leu
 1               5                  10                  15

Glu Val Ala Cys Ser Asp Cys Glu Val Glu Val Leu Pro Leu Gly Leu
                20              25                  30

Glu Thr His Pro Arg Thr Ala Lys Thr Glu Lys Cys Pro Pro Lys Phe
            35                  40                  45

Ser Asn Asn Pro Lys Glu Leu Thr Met Glu Thr Lys Tyr Asp Asn Ile
        50                  55                  60

Ser Arg Ile Gln Tyr His Ser Val Ile Arg Asp Pro Glu Ser Lys Thr
65                  70                  75                  80

Ala Ile Phe Gln His Asn Gly Lys Lys Met Glu Phe Val Ser Ser Glu
                85                  90                  95

Ser Val Thr Xaa Glu Asp Asn Asp Gly Phe Lys Pro Pro Xaa Glu His
            100                 105                 110

Leu Asn Ser Lys Thr Lys Gly Ala Gln Lys Asp Ser Ser Ser Asn His
            115                 120                 125

Val Asp Glu Phe Glu Asp Asn Leu Leu Ile Gly Ile Gln Met Trp Xaa
        130                 135                 140

Arg Tyr
145
```

5289

<210> 6028
<211> 222
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (37)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (221)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6028
```
Lys Ala Pro Ala Ser Thr Cys Pro Arg Arg Pro Thr Gly Ala Ala Cys
 1               5                  10                  15

Cys Val Asn Trp Arg Ser Pro Lys Gly Pro Gly Arg Pro Pro Gly Ser
                20                  25                  30

Ala Pro Pro Thr Xaa Ala Gln Arg His Pro Leu Cys Ser Arg Asn Gln
            35                  40                  45

Pro Pro Thr Leu Pro Arg Thr Arg Pro Gln Ser Pro Ala Ala Pro Ser
        50                  55                  60

Thr Pro Thr Cys Gln Pro Ala Gly Ser Ser Ala Leu Trp Ser Pro Ser
65                  70                  75                  80

Ser Thr Cys Leu Pro Ala Pro Ala Trp Val Pro Val Pro Pro Ser Pro
                85                  90                  95

Arg Thr Trp Thr Met Arg Ala Val Ile Lys Pro Arg Leu Lys Met Lys
                100                 105                 110

Met Arg Met Ser Ser Arg Met Lys Thr Arg Met Arg Thr Arg Met Arg
            115                 120                 125

Met Glu Ser Arg Ala Ser Gln Ser Leu Glu Arg Arg Pro Arg Ser Ala
        130                 135                 140

Thr Pro Trp Thr Trp Ala Thr Val Thr His His Glu Val Pro Thr Ser
145                 150                 155                 160

His Ser Ile Pro Cys Ser Val Arg Val Ala Ala His His Thr Ser Pro
                165                 170                 175

Cys Gln Glu Gln Glu Ser Pro Gln Ala Glu Cys Pro Arg Gly Ala Leu
                180                 185                 190
```

5290

Leu Arg Leu Ser Arg Glu Pro Val Lys Glu Ile Glu Ile Lys Pro Val
        195   200   205

Leu Leu Gly His Arg Phe Ala Val Leu Lys Lys Lys Xaa Asn
        210   215   220

<210> 6029
<211> 49
<212> PRT
<213> Homo sapiens

<400> 6029
Phe Val Glu Val Gly Met Ile Trp Gln Ser Leu Lys Phe Ile Leu Gly
 1   5   10   15

Arg Arg Trp Gln Lys Ser Gly Val Tyr Gln Val Met Arg Phe Leu Leu
            20   25   30

Thr His Gln Pro Asn Phe Cys Ser Phe Cys Thr Ser Glu Met Lys Lys
        35   40   45

Arg

<210> 6030
<211> 73
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (45)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6030
Asp Thr Glu Ala Asp Val Leu Gly Leu Val Ala Ser Gly Thr Pro Asp
 1   5   10   15

Val Ala Arg Ala Met Thr His Thr Leu Leu Arg His Leu Ala Ala Arg
            20   25   30

Pro Pro Thr Gln Ala Gln His Gln His Gln Cys Pro Xaa Cys Leu Leu
        35   40   45

Pro Leu Pro Gly Val Leu Thr Gly Trp Gly Trp Val Trp Gln Lys Ala
        50   55   60

5291

```
Glu Leu Ser Glu Ala Trp Gly Gln Glu
 65                  70


<210> 6031
<211> 55
<212> PRT
<213> Homo sapiens

<400> 6031
Asn Asn Phe Tyr Ile Leu Tyr Phe Pro Thr Lys Gln Asn Arg Asp Gln
 1               5                 10                  15


Tyr Ser His Leu Leu Ser Asp His Phe Leu Pro Tyr Gln Gly His Asn
              20              25                  30


Ser Phe Arg Glu Lys Tyr Phe Ser Gly Val Thr Lys Arg Ile Ala Lys
          35              40                  45


Glu Glu Lys Ser Thr Gln Glu
     50              55


<210> 6032
<211> 147
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (7)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (21)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (24)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (40)
<223> Xaa equals any of the naturally occurring L-amino acids
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5292

<400> 6032
Val Phe Arg Glu His Arg Xaa Ser Val Ile Cys Leu Glu Leu Val Asn
1   5   10   15

Arg Leu Val Tyr Xaa Gly Ser Xaa Asp Arg Thr Val Lys Cys Trp Leu
            20   25   30

Ala Asp Thr Gly Glu Cys Val Xaa Thr Phe Thr Ala His Arg Arg Asn
        35   40   45

Val Ser Ala Leu Lys Tyr His Ala Gly Thr Leu Phe Thr Gly Ser Gly
    50   55   60

Asp Ala Cys Ala Arg Ala Phe Asp Ala Gln Ser Gly Glu Leu Arg Arg
65   70   75   80

Val Phe Arg Gly His Thr Phe Ile Ile Asn Cys Ile Gln Val His Gly
            85   90   95

Gln Val Leu Tyr Thr Ala Ser His Asp Gly Ala Leu Arg Leu Trp Asp
            100   105   110

Val Arg Gly Leu Arg Gly Ala Pro Arg Ser Pro Pro Pro Met Arg Ser
        115   120   125

Leu Ser Arg Leu Phe Ser Asn Lys Val Gly Cys Ala Val Ala Pro Leu
    130   135   140

Gln Pro Ala
145

<210> 6033
<211> 70
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (34)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6033
Gly Asn Arg Ala Arg Leu His Leu Lys Lys Arg Lys Lys Asn Cys Asn
1   5   10   15

Ser Tyr Thr Leu Ala Leu Leu Leu Tyr His Cys Val Ile Leu Lys Thr
            20   25   30

Thr Xaa Ile Tyr Tyr Thr Gly Thr Cys Leu Leu Ser Ile Ser Thr Thr

5293

```
                35                    40                    45
Lys Met Glu Ala Pro Thr Ala Ile Arg Leu Ile Ser Leu Pro Gly Pro
     50                    55                    60

Ile Leu Ile Met Leu Leu
65                    70



<210> 6034
<211> 162
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (135)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6034
Glu His Leu Glu Arg Met Leu Gly Gln Ala Gly Glu Arg Arg Ala Asp
 1               5                    10                    15

Val Tyr Val Gly Val Asp Val Phe Ala Arg Gly Asn Val Val Gly Gly
               20                    25                    30

Arg Phe Asp Thr Asp Lys Ser Leu Glu Leu Ile Arg Lys His Gly Phe
               35                    40                    45

Ser Val Ala Leu Phe Ala Pro Gly Trp Val Tyr Glu Cys Leu Glu Lys
     50                    55                    60

Lys Asp Phe Phe Gln Asn Gln Asp Lys Phe Trp Gly Arg Leu Glu Arg
65                    70                    75                    80

Tyr Leu Pro Thr His Ser Ile Cys Ser Leu Pro Phe Val Thr Ser Phe
               85                    90                    95

Cys Leu Gly Met Gly Ala Arg Arg Val Cys Tyr Gly Gln Glu Glu Ala
               100                   105                   110

Val Gly Pro Trp Tyr His Leu Ser Ala Gln Glu Ile Gln Pro Leu Phe
               115                   120                   125

Gly Glu His Arg Leu Gly Xaa Asp Gly Arg Gly Trp Val Arg Thr His
       130                   135                   140

Cys Cys Leu Glu Asp Ala Trp His Gly Gly Ser Ser Leu Leu Val Arg
145                   150                   155                   160
```

5294

Gly Val


```
<210> 6035
<211> 64
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (9)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (15)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (24)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (27)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (52)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (53)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6035
Lys Tyr Tyr Thr Cys Glu Thr Asp Xaa Glu Asn Gln Cys Gly Xaa Gly
  1               5                  10                  15

Val Val His Ile Asn Tyr Leu Xaa Ser Thr Xaa His Lys Ser Gln Ala
            20                  25                  30

Cys Lys Ile Ser Gly Leu Ala Pro Glu Arg Gln Ile Pro His Asp Leu
            35                  40                  45

Thr Asp Met Xaa Xaa Leu Lys Lys Ser Asn Ser Glu Gln Arg Val Glu
```

5295

```
<210> 6036
<211> 85
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (43)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (75)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6036
Gly Val Leu His Phe Cys Gly Lys Ser Pro Phe Trp Arg Ser Ser Thr
 1               5                  10                  15

Gly Arg Phe Leu Gly Cys Tyr Asn Gln Asp Phe Ser Thr Thr Thr Leu
            20                  25                  30

Leu Val Phe Gly Ala Arg Val Ile Leu Cys Xaa Trp Gly Gly Gln Phe
            35                  40                  45

Ile Val Gly Cys Phe Thr Ala Ser Ile Pro Leu Ser Tyr Ser Leu Gln
    50                  55                  60

Gly Lys Thr Thr Lys Asn Val Pro Arg His Xaa Gln Ile Ser Pro Gly
65                  70                  75                  80

Gly Gln Ser Phe Ile
                85


<210> 6037
<211> 214
<212> PRT
<213> Homo sapiens

<400> 6037
Leu Ser Leu Arg Asn Ala Lys Tyr Ser Phe Pro Gln Glu Leu Ile Ser
 1               5                  10                  15
```

5296

```
Leu Phe Ser Met Thr Asp Leu Asn Asp Asn Ile Cys Lys Arg Tyr Ile
            20          25              30

Lys Met Ile Thr Asn Ile Val Ile Leu Ser Leu Ile Ile Cys Ile Ser
        35          40              45

Leu Ala Phe Trp Ile Ile Ser Met Thr Ala Ser Thr Tyr Tyr Gly Asn
    50              55              60

Leu Arg Pro Ile Ser Pro Trp Arg Trp Leu Phe Ser Val Val Val Pro
65              70              75              80

Val Leu Ile Val Ser Asn Gly Leu Lys Lys Lys Ser Leu Asp His Ser
                85              90              95

Gly Ala Leu Gly Gly Leu Val Val Gly Phe Ile Leu Thr Ile Ala Asn
            100             105             110

Phe Ser Phe Phe Thr Ser Leu Leu Met Phe Phe Leu Ser Ser Ser Lys
        115             120             125

Leu Thr Lys Trp Lys Gly Glu Val Lys Lys Arg Leu Asp Ser Glu Tyr
    130             135             140

Lys Glu Gly Gly Gln Arg Asn Trp Val Gln Val Phe Cys Asn Gly Ala
145             150             155             160

Val Pro Thr Glu Leu Ala Leu Leu Tyr Met Ile Glu Asn Gly Pro Gly
            165             170             175

Glu Ile Gln Ser Ile Phe Pro Ser Ser Thr Pro Leu Pro Gly Cys Val
            180             185             190

Cys Leu Ser Trp Leu His Trp Pro Ala Leu Leu Glu Thr His Gly Leu
            195             200             205

Gln Lys Leu Ala Gln Phe
    210
```

```
<210> 6038
<211> 65
<212> PRT
<213> Homo sapiens

<400> 6038
Phe Phe Tyr Asn Thr Lys Val Thr Thr Trp Asn Phe Lys Asp Asn Val
    1           5               10              15
```

5297

```
Met Cys Val Cys Glu Ile Tyr Ile His Ile Tyr Ile Tyr Phe Leu Lys
         20                  25                  30

Glu Glu Lys Ile Pro Phe Cys Ser Thr Cys Ile Asn Ser Ser Phe Leu
         35                  40                  45

Ile Ala Val Lys Trp Gln Leu Leu Ile Asn Tyr Cys Asp Cys Phe Lys
   50                  55                  60

Ile
 65
```

<210> 6039
<211> 55
<212> PRT
<213> Homo sapiens

<400> 6039
```
Lys Ala Gly Phe Arg Gln Ser Val His Phe Tyr Ser Lys Ile Gly Val
  1               5                  10                  15

Ser Val Tyr Ile Tyr Leu Lys Leu Asn Arg Ser Asp Phe Tyr Phe Leu
         20                  25                  30

Gly Tyr Ser Arg Ser Ile Leu Lys Leu Leu Phe Lys Ile Leu Lys Pro
         35                  40                  45

His Phe Lys Ser Cys Arg Pro
   50                  55
```

<210> 6040
<211> 54
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (34)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (35)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6040
Gln Leu Gln Ile Asn Arg Tyr Thr Pro Tyr Thr Ile Thr Asn Thr Phe

5298

```
      1              5                    10                   15
    Tyr Thr Val His Ile Ser Val His Gln His Tyr Phe Ile Tyr Thr Leu
                20                  25                  30

    Phe Xaa Xaa Ile Asn Ile Phe Leu Asn Trp Asp Tyr Cys Pro Tyr Ala
                35                  40                  45

    Leu Tyr Phe Leu Phe Gln
                50
```

<210> 6041
<211> 77
<212> PRT
<213> Homo sapiens

<400> 6041
```
    Leu Leu Thr Thr Trp Val Lys Gly Lys Arg Gln Met Ala Ser Lys Pro
      1              5                    10                   15

    Leu Val Cys Leu Ser Ser Ser Gly Ser Glu Glu Ile Thr Ser Ala Phe
                20                  25                  30

    Leu Pro Glu Glu Phe Gly Val Phe Lys Gly Gly Trp Gly Gly Cys His
                35                  40                  45

    Phe Glu Asn Met Leu Leu Phe Leu Leu Ile Val Leu Arg Leu Ile Trp
                50                  55                  60

    Lys Gly Tyr Phe Phe Leu Ala Asn Thr Phe Trp Tyr Phe
      65                  70                  75
```

<210> 6042
<211> 218
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (133)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (202)
<223> Xaa equals any of the naturally occurring L-amino acids

5299

```
<220>
<221> SITE
<222> (208)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (216)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6042
His Ile Glu Met Ala Leu Pro Lys Asp Ala Ile Pro Ser Leu Ser Glu
 1               5                  10              15

Cys Gln Cys Gly Ile Cys Met Glu Ile Leu Val Glu Pro Val Thr Leu
            20                  25                  30

Pro Cys Asn His Thr Leu Cys Lys Pro Cys Phe Gln Ser Thr Val Glu
        35                  40                  45

Lys Ala Ser Leu Cys Cys Pro Phe Cys Arg Arg Arg Val Ser Ser Trp
    50                  55                  60

Thr Arg Tyr His Thr Arg Arg Asn Ser Leu Val Asn Val Glu Leu Trp
65                  70                  75                  80

Thr Ile Ile Gln Lys His Tyr Pro Arg Glu Cys Lys Leu Arg Ala Ser
            85                  90                  95

Gly Gln Glu Ser Glu Glu Val Ala Asp Asp Tyr Gln Pro Val Arg Leu
            100                 105                 110

Leu Ser Lys Pro Gly Glu Leu Arg Arg Glu Tyr Glu Glu Glu Ile Ser
        115                 120                 125

Lys Val Ala Ala Xaa Arg Arg Ala Ser Glu Glu Glu Glu Asn Lys Ala
    130                 135                 140

Ser Glu Glu Tyr Ile Gln Arg Leu Leu Ala Glu Glu Glu Glu Glu Glu
145                 150                 155                 160

Lys Arg Gln Ala Glu Lys Arg Arg Arg Ala Met Glu Glu Gln Leu Lys
            165                 170                 175

Ser Asp Glu Glu Leu Ala Arg Lys Leu Ser Ile Asp Ile Asn Asn Phe
            180                 185                 190

Cys Glu Gly Ser Ile Ser Ala Ser Pro Xaa Glu Phe Gln Lys Asn Xaa
        195                 200                 205

Val Pro Val Thr Pro Lys Ser Xaa Lys Arg
```

5300

210   215

<210> 6043
<211> 106
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (4)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6043
Trp Pro Gly Xaa Trp Thr Leu Ala Thr Glu Leu Leu His Arg Ala Trp
 1   5   10   15

Cys Pro Gln Ala Ser Arg Leu Gly Leu Glu Pro Gly Met Ser Pro Gly
            20   25   30

Ser Ala Leu Ala Leu Leu Trp Ser Leu Pro Ala Ser Asp Leu Gly Arg
            35   40   45

Ser Val Ile Ala Gly Leu Trp Pro His Thr Gly Val Leu Ile His Leu
        50   55   60

Glu Thr Ser Gln Ser Phe Leu Gln Gly Gln Leu Thr Lys Ser Ile Phe
65   70   75   80

Pro Leu Cys Cys Thr Ser Leu Phe Cys Val Cys Val Val Thr Val Gly
                85   90   95

Gly Gly Arg Val Gly Ser Thr Phe Val Ala
            100   105

<210> 6044
<211> 67
<212> PRT
<213> Homo sapiens

<400> 6044
Ile Pro Ala Pro Leu Tyr His Leu Phe Leu Pro Leu Lys Gly Lys Thr
 1   5   10   15

Phe His Pro Ser Lys Leu Thr Ala Phe Ser Val Gly Phe Ser Tyr Ala
            20   25   30

Leu His Thr Leu Asp Leu Thr Cys Arg Tyr Ser Ser Pro Leu Ala Arg

5301

```
          35                    40                    45
Ser Ile Cys Met Trp Tyr Phe Ser Phe Pro Ser Val Asp Ile Ser Tyr
     50                    55                    60

Met Ile Phe
 65
```

<210> 6045
<211> 78
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (59)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (60)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (70)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (73)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6045

```
His Val Val Tyr Pro Arg Lys Leu Gly Arg Pro Leu Pro Ser Gln Ala
 1               5                   10                  15

Leu Arg Asn Asn Phe Ser Cys Leu Pro Met Leu Ile Ile Leu Val Phe
             20                  25                  30

Asn Ser Leu Ser Asp Leu Gln Asn Val Phe Ile Asn Ser Ser Cys Thr
             35                  40                  45

Trp Leu Asp Lys Leu Ser Cys Leu Cys Trp Xaa Xaa Asn Asp Tyr Leu
     50                  55                  60

Leu Ile Tyr Phe Gly Xaa Asn Ile Xaa Lys Asn Ile Asn Lys
 65                  70                  75
```

5302

<210> 6046
<211> 162
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (102)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6046
Pro Tyr Arg Glu Ser Trp Tyr Ala Cys Arg Tyr Arg Ser Gly Ile Pro
 1   5   10   15

Gly Ser Thr His Ala Ser Gly Arg Leu Ala Gly Arg Gly Ala Glu Ser
                20   25   30

Gly Leu Pro Arg Arg Gly Thr Ser Tyr Ser Val Gly Glu Ala Met Glu
            35   40   45

Glu Leu Leu Pro Asp Gly Gln Ile Trp Ala Asn Met Asp Pro Glu Glu
        50   55   60

Arg Met Leu Ala Ala Ala Thr Ala Phe Thr His Ile Cys Ala Gly Gln
65   70   75   80

Gly Glu Gly Asp Val Arg Arg Glu Ala Gln Ser Ile Gln Tyr Asp Pro
                85   90   95

Tyr Ser Lys Ala Ser Xaa Ala Pro Gly Lys Arg Pro Ala Leu Pro Val
            100   105   110

Gln Leu Gln Tyr Pro His Val Glu Ser Asn Val Pro Ser Glu Thr Val
            115   120   125

Ser Glu Ala Ser Gln Arg Leu Arg Lys Pro Val Met Lys Arg Lys Val
        130   135   140

Leu Arg Arg Lys Pro Asp Gly Glu Val Leu Val Thr Asp Glu Ser Ile
145   150   155   160

Ile Lys

<210> 6047
<211> 48
<212> PRT

5303

<213> Homo sapiens

<400> 6047
Val Leu Cys Val Cys Val Cys Val Cys Val Cys Ala His Met Cys Thr
1   5   10   15

Leu Val Leu Val Pro Asn Ser Cys Ser Pro Gly Asp Pro Leu Val Leu
            20   25   30

Glu Arg Pro Pro Pro Arg Trp Ser Thr Ser Phe Val Pro Leu Val Arg
        35   40   45

<210> 6048
<211> 74
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (27)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6048
Asn Val Lys Lys His Ile Tyr Leu Tyr Ile Asp Phe Lys Gln Asn Thr
1   5   10   15

Leu Asn Thr Leu Leu Ser Val Arg Leu Met Xaa Ala Glu Glu Phe Tyr
            20   25   30

Trp Val Glu Lys Thr Val Ile Tyr Ile Val Leu Asn Val Phe Ile Ile
        35   40   45

Asn Gly Cys Ser Ile Ile Ser Ile Leu Phe Ser Ala Ser Asn Gly Met
    50   55   60

Ile Ile Arg His Phe Ser Leu Leu Ile Ser
65   70

<210> 6049
<211> 45
<212> PRT
<213> Homo sapiens

<400> 6049

5304

Phe Ile Lys Trp Val Ile Ile His Thr Asn Ala Lys Leu Ser Ile Tyr
1   5   10   15

Tyr Ile Lys Ile Phe Asn Val Leu Ala Asn Phe Gly Lys Ala Lys Thr
            20   25   30

Thr Ser Val Asn Lys Asp Gly Phe Leu Val Ile Cys His
            35   40   45

<210> 6050
<211> 62
<212> PRT
<213> Homo sapiens

<400> 6050
Gly Glu Thr Ser Gly Leu Leu Cys Ser Gly Lys Thr Arg Asp Ala His
1   5   10   15

Tyr Cys Glu Gly Pro Leu Lys Ser Gly Leu Leu Asn Gly Phe Leu Leu
            20   25   30

Ile Ser Trp Val His Ala Arg Met Met Gly Leu Asp Ala Val Gly Lys
            35   40   45

Arg Arg Cys Lys Asn Asn Lys Gln Tyr Ile Pro Ser Lys Lys
    50   55   60

<210> 6051
<211> 59
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (22)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6051
Gln Xaa Cys Lys Asn Ile Gln Lys Ser Arg Thr Ile Gly Leu Ser Phe
1   5   10   15

Gln Ser Lys Ser Lys Xaa Ser Cys Phe His Phe Thr Arg Leu Trp Lys

5305

```
                    20                  25                  30

Pro Met Asp Val Ile Val Lys Cys Ile Cys Ile Thr Leu Thr Phe Leu
          35                  40                  45

Lys Cys Phe Glu Leu Ile Lys Asn Ser Thr Met
          50                  55



<210> 6052
<211> 51
<212> PRT
<213> Homo sapiens

<400> 6052
Asp Thr Phe Asn Pro Val Asn Phe Phe Ser Val Ser Asp Lys Val Lys
 1               5                  10                  15

Phe Ser Ser Arg Val Gln Asn Thr Phe Ile Tyr Phe Phe Val Phe Leu
              20                  25                  30

Lys Val Gln Arg Thr Thr Leu Ile Asn Leu Ser Phe Pro Ala Thr Trp
          35                  40                  45

Asn Ser Thr
          50



<210> 6053
<211> 89
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (14)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6053
Lys Leu Leu Ser Pro Leu Asn Gly Leu Gly Pro Leu Val Xaa Ser His
 1               5                  10                  15

Cys Ser Ile Arg Val Ser Leu His Leu Trp Ala Leu Leu Ser Cys Asp
              20                  25                  30

Ser Arg Asn Val Leu Leu Ile His Phe Met Val Asp His Pro Leu Ala
          35                  40                  45

Leu Ser Thr Leu Pro Leu Phe Ser Ser Ala Pro His Arg Ile Ile Ser
```

5306

```
            50                    55                    60

Ile Val Ser Val Ser Ser Leu Leu Ile Leu Tyr Ser Ala Cys Ser Asp
 65                    70                    75                    80

Leu Pro Val Asn Pro Leu Val Asn Leu
                    85
```

<210> 6054
<211> 92
<212> PRT
<213> Homo sapiens

<400> 6054

```
Ile Ser Gly Asp Lys His Leu Lys Lys Val Gln Leu Thr Leu Glu Gln
 1               5                    10                   15

His Glu Ser Glu Leu Cys Val Gly Leu Leu Thr Gly Arg Phe Phe Phe
                20                   25                   30

Ser Ile Ser Ile Leu Glu Asn Phe Leu Glu Ile Phe Gly Asn Leu Lys
                35                   40                   45

Lys Leu Ala Asn Tyr Ser Leu Glu Ile Ser Glu Val Lys Lys Lys Leu
     50                    55                    60

Val Cys His Arg Cys Ile Lys Leu Thr Met Ser Ile Leu Val His Phe
 65                    70                    75                    80

Ile Ile Tyr Tyr His Lys Ile Tyr Thr Ser Phe Phe
                    85                    90
```

<210> 6055
<211> 48
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (10)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (16)
<223> Xaa equals any of the naturally occurring L-amino acids

```
<220>
<221> SITE
<222> (19)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (27)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (28)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (29)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6055
Thr Glu Lys Glu Met Lys Ile Asp Gln Xaa Glu Lys Gly Leu Val Xaa
 1               5              10                 15

Lys Gly Xaa Lys Gly Arg Ser Leu Trp Asn Xaa Xaa Xaa Leu Lys Asn
            20              25                 30

Glu Val Thr Pro Asn Asn Arg Thr Gly Gln Ser Glu Met Thr Trp Leu
         35              40                 45




<210> 6056
<211> 55
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (5)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6056
Lys Ser Ser Ile Xaa Pro Pro Leu Ile Phe Pro Ala Thr Asp Ile Asp
 1               5              10                 15


Arg Ile Leu Arg Ala Gly Phe Thr Leu Gln Glu Ala Leu Gly Ala Leu
            20              25                 30
```

5308

```
His Arg Val Gly Gly Asn Ala Asp Leu Ala Leu Leu Val Leu Leu Ala
        35              40              45
```

```
Lys Asn Ile Val Val Pro Thr
        50              55
```

<210> 6057
<211> 56
<212> PRT
<213> Homo sapiens

<400> 6057
```
Ser Gln Leu Leu Gly Arg Leu Arg Gln Glu Asn His Leu Asn Pro Gly
 1               5               10              15
```

```
Gly Arg Gly Cys Ser Glu Pro Arg Ser His His Cys Thr Pro Ala Trp
            20              25              30
```

```
Ala Thr Arg Ala Lys Leu His Leu Lys Lys Thr His Ile Phe Met Asn
        35              40              45
```

```
Ile Ser His Gln Gln Cys Arg Lys
        50              55
```

<210> 6058
<211> 113
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (98)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6058
```
Glu Glu Thr Trp Leu Leu Ala Leu Ile Asn Glu Glu Ser His Phe Pro
 1               5               10              15
```

```
Gln Ala Thr Asp Ser Thr Leu Leu Glu Lys Leu His Ser Gln His Ala
            20              25              30
```

```
Asn Asn His Phe Tyr Val Lys Pro Arg Val Ala Val Asn Asn Phe Gly
        35              40              45
```

```
Val Lys His Tyr Ala Gly Glu Val Gln Tyr Asp Val Arg Gly Ile Leu
        50              55              60
```

5309

```
Glu Lys Asn Arg Asp Thr Phe Arg Asp Asp Leu Leu Asn Leu Leu Arg
65                  70              75                  80

Glu Ser Arg Phe Asp Phe Ile Tyr Asp Leu Phe Glu His Val Ser Lys
                85                  90                  95

Pro Xaa Gln Pro Gly Tyr Leu Glu Met Trp Glu Pro Thr Ser Ala Ala
            100                 105             110

Tyr
```

```
<210> 6059
<211> 44
<212> PRT
<213> Homo sapiens

<400> 6059
Ala Phe Ile Tyr Leu Asn Phe Glu Phe Leu Asn Phe Leu Val Lys Asn
 1               5               10                  15

Gln Asp Lys His Thr Ser Leu Gly Leu Cys Arg Val Arg Ile Lys Thr
            20                  25                  30

Ser Leu Ala Gly Asp Arg Asn Phe Ser Thr Pro Leu
            35                  40
```

```
<210> 6060
<211> 59
<212> PRT
<213> Homo sapiens

<400> 6060
Ala Asp Tyr Pro Thr Val Gly Thr Lys Leu Asp Ser Tyr Phe Val Gly
 1               5               10                  15

Leu Ser Phe Leu Ile Leu Thr Ile Tyr His Pro Ile Leu Cys Pro Val
            20                  25                  30

Ile Phe Phe Lys Ser Leu Phe Asn Val Leu Gln His Cys Asp Cys Met
            35                  40                  45

Leu Ala Thr Leu Leu Leu Glu Cys Ser Phe Ser
            50                  55
```

5310

```
<210> 6061
<211> 51
<212> PRT
<213> Homo sapiens

<400> 6061
Trp Val Asn Leu Arg Phe Gln Ser Gln Lys Leu Gln Val Val Val Thr
 1               5                  10                  15


Phe Leu Ser Ala Trp Ile Lys Pro Leu Lys Cys Gly Lys Cys Cys Gln
            20              25                  30


Ser Arg Ala Ile Ser Leu Leu Ser Ser Met Arg Gly Ile Glu Thr Lys
            35                  40                  45


Gln Gln Phe
        50




<210> 6062
<211> 73
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (17)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (46)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (52)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6062
Lys Leu Thr Leu Thr Lys Gly Asn Lys Ser Trp Ser Ser Thr Ala Val
 1               5                  10                  15


Xaa Thr Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn Ser Ala
            20              25                  30


Arg Gly Gly Val Ser Ser Leu Lys Leu Arg Thr Ile Phe Xaa Val Ala
            35                  40                  45
```

5311

```
Lys Leu His Xaa Met Met Leu Pro Leu Leu Ser Val Leu Ser Gly Pro
      50                      55                  60

Leu Phe Thr Ser Thr Arg Tyr Pro Ser
 65                      70
```

```
<210> 6063
<211> 59
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (55)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6063
Arg Gly Asn Arg Cys Leu Thr Lys Arg Glu Ala Ile Arg Gly Ile Asp
  1               5                  10                  15

Glu Ala Gln Leu Lys Ser Ser Leu Ala Ser Ser Ser Leu Ala Ser Val
              20                  25                  30

His Leu Lys Asn Lys Ser Trp Leu Thr Val Gly Ser Thr Arg Phe Glu
          35                  40                  45

Ile Arg Trp Leu Tyr Phe Xaa Phe Phe Gly Ile
      50                  55
```

```
<210> 6064
<211> 66
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6064
Thr Xaa Met Phe Gln Gln His Arg Phe Ile Cys Asn His Lys Ser Asp
  1               5                  10                  15

Thr Phe Arg Met Thr Lys Pro Gln Lys Asn Ala Ile Phe Lys Ala Glu
              20                  25                  30

Thr Val Leu Phe Trp Ala Lys Trp Asn Pro Cys Phe Ser Asp Thr Val
```

5312

                35   40   45

Arg Val Glu Ile Lys Asp Thr Glu Asn Leu Pro Leu Gly Asn His Asn
        50   55   60

Tyr Leu
 65

<210> 6065
<211> 46
<212> PRT
<213> Homo sapiens

<400> 6065
Lys Arg Gln Leu Glu Asn Val Met His Gly Val Phe Lys Lys Thr Lys
  1   5   10   15

Cys Ser Phe Tyr Leu Thr Asp Asn Ser Phe Tyr Thr Leu Tyr Asn Lys
               20   25   30

Ile Ser Thr Arg His Leu Val Gly Lys Val Lys Lys Lys
            35   40   45

<210> 6066
<211> 136
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (10)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (13)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (76)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6066
Arg Gly Leu Pro Ser Ile Pro Glu Asn Xaa Asn Leu Xaa Glu Tyr Phe
  1   5   10   15

5313

```
Val Ala Val Asp Val Asn Asn Met Leu His Leu Tyr Ala Ser Met Leu
            20                  25                  30

Tyr Glu Arg Arg Ile Leu Ile Ile Cys Ser Lys Leu Ser Thr Leu Thr
            35                  40                  45

Ala Cys Ile His Gly Ser Ala Ala Met Leu Tyr Pro Met Tyr Trp Gln
        50              55              60

His Val Tyr Ile Pro Val Leu Pro Pro His Leu Xaa Asp Tyr Cys Cys
65              70                  75                  80

Ala Pro Met Pro Tyr Leu Ile Gly Ile His Leu Ser Leu Met Glu Lys
                85              90                  95

Val Arg Asn Met Ala Leu Asp Asp Val Val Ile Leu Asn Val Asp Thr
            100                 105                 110

Asn Thr Leu Glu Thr Pro Phe Asp Asp Leu Gln Ser Leu Pro Asn Asp
            115                 120                 125

Val Glu Glu Ser Ile Val Ile Gln
    130             135
```

```
<210> 6067
<211> 74
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (40)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6067
His Phe Ala Ala Tyr Gly Asn Val Cys Val Leu Phe Ile Leu Met Asn
 1           5               10                  15

Cys Ala Met Thr His Lys Pro Lys Gln Cys Gln Leu Gln Leu Asn Leu
            20              25                  30

Gly Arg Asn Pro Trp Cys Phe Xaa Phe Phe Phe Asp Ala Gly Glu Arg
            35              40                  45

Leu His Phe Val Thr Asn Leu Leu Pro Asn Arg Lys Ile Tyr Phe Leu
        50              55                  60

Ser Asp Arg His His Thr Arg Cys Leu Leu
65              70
```

```
<210> 6068
<211> 86
<212> PRT
<213> Homo sapiens

<400> 6068
Gly Lys Pro Gly Ala Pro Leu Gln Pro Trp Asp Asn Leu Arg Ile Pro
 1               5                  10                  15

Pro Glu Ala Ser Ser Val Met Asp Ala Val Leu Arg Ile Thr Cys Cys
            20                  25                  30

Pro Gly Val Thr Cys Phe His Leu Pro Ala His Gln Pro Ser Ala His
        35                  40                  45

Leu Thr Cys Leu Pro Met Asp Trp Gly Leu Pro Gly Pro Pro Pro Tyr
    50                  55                  60

Val Asn Leu His Phe Leu Phe Lys Asn Gln Glu Lys Lys Arg Phe Glu
65                  70                  75                  80

Asp Pro Lys Ser Cys Gln
                85
```

```
<210> 6069
<211> 82
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (47)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (50)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (76)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6069
Leu Glu Gly Arg Ala Leu Leu Gln Val Arg Val Gly Val Leu Ser Glu
```

5315

```
 1                   5                   10                  15

Ser Cys Val Leu Gly Leu Val Ser Phe Pro Cys Pro Cys Ser Gly Ser
              20                  25                  30

Val Arg Gln Ile Gly Arg Leu Cys Ser Arg Pro Gln Glu Cys Xaa Ser
              35                  40                  45

Pro Xaa Leu Ala Gln Tyr Ile Gly Thr Cys Gly Phe Tyr Phe Val Phe
         50                  55                  60

Asp Val Pro Asp Arg Asn Arg Ala Arg Gly Thr Xaa Lys Thr Thr Val
65                  70                  75                  80

Gly Ser
```

<210> 6070
<211> 50
<212> PRT
<213> Homo sapiens

<400> 6070
```
Ser Lys Glu Arg Val Asp Gly Leu Lys Arg Leu Ala Ser Val Ser Val
 1                   5                   10                  15

Ala Gly Ser His Leu Ala Ser Asn Trp Lys Gln Asn Phe Trp Gly Val
              20                  25                  30

Leu Phe Cys Ile Arg Val Cys Phe Met Leu Ser Lys Thr Tyr Phe Arg
         35                  40                  45

Ser Lys
    50
```

<210> 6071
<211> 51
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (15)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6071
Trp Lys Leu Val Gly Pro Pro Gly Leu Thr Gly Ile Arg Thr Xaa Gly

5316

```
    1                 5                  10                 15
  Lys Asn Phe Val Arg Pro Gln Lys His Cys Thr Val Asn Ile Leu Glu
              20                  25                 30

  Lys Val Cys Gln Thr Gly Ile Asn Asp Ser Met Ile Phe Asn Asp Cys
              35                  40                 45

  Lys Leu Arg
       50
```

```
<210> 6072
<211> 52
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (29)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (47)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (52)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6072
Lys Ser Met Gly Glu Glu Asn Val Lys Met Leu Ser Asp Ile Arg Cys
  1                 5                  10                 15

Met Lys Ser His Asn Ile Lys Ala Ile Ser Tyr Phe Xaa Arg Gly Ile
              20                  25                 30

Phe Leu Leu Pro Leu Leu Val Leu Asp Arg Phe Tyr Lys Met Xaa Asn
              35                  40                 45

Lys Ile Trp Xaa
       50
```

```
<210> 6073
<211> 102
<212> PRT
```

<213> Homo sapiens

<220>
<221> SITE
<222> (50)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (58)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6073
```
Glu Ser Ser Ile Cys Cys Ser Phe Leu Gln Leu Tyr Phe Cys Ser Ile
 1               5                  10                  15

Ser Trp Phe His Ser Leu Leu Phe Trp Asp Phe Val Phe Arg Ser Ala
            20                  25                  30

Tyr Phe Leu Tyr Ile Cys Met Gln Met Lys Glu Gly Ser Leu Tyr Trp
            35                  40                  45

Cys Xaa Phe Ser Leu Gln Leu Leu Val Xaa Gly Asp Leu Leu Glu Lys
        50                  55                  60

Ile Leu Pro Leu Lys Gly Glu Asn Arg Pro Leu Cys Val Tyr Leu Tyr
65                  70                  75                  80

Arg Asp Val Tyr Met Gly Cys Gly Gly Thr Leu Leu Asn Val Asn Leu
                85                  90                  95

Pro Cys Gln Trp Lys Asp
            100
```

<210> 6074
<211> 37
<212> PRT
<213> Homo sapiens

<400> 6074
```
Leu Phe Gly Ala Val Arg Lys Lys Lys Lys Lys Ile Ala Ile Ser
 1               5                  10                  15

Ser Cys Val His Asn Ser Arg Tyr Asn Ile Gln Ser Leu Glu Gly Pro
            20                  25                  30

Phe Trp Ala Leu Asp
            35
```

5318

<210> 6075
<211> 37
<212> PRT
<213> Homo sapiens

<400> 6075
Tyr Ser Phe Asp Asn Thr Arg Val Ser Glu Ile Pro Asp Thr Ser Val
 1   5   10   15

Gln Asn Ala Met Asp Leu Leu Phe Tyr Ser Cys Gln Pro Phe Ser Ile
            20   25   30

Pro Ile Gln Lys Arg
        35

<210> 6076
<211> 73
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (48)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6076
Thr Leu Ser Asp Val Gly Cys Pro His Gln Asn Ile Cys Thr Ser Cys
 1   5   10   15

Phe Cys Pro Thr Leu Glu Ala Ala Glu Lys Lys Gly Lys Gln Gly Ser
            20   25   30

Arg Asn Leu Cys Tyr Val Phe Ser Pro Leu Tyr Leu Phe Leu Trp Xaa
            35   40   45

Val Val Gln Glu Ile Leu Phe Ser Cys Ser Lys Leu Ile Lys Arg Ser
        50   55   60

Asn Ile Arg Asn Tyr Asp Asn Ser Leu
65   70

<210> 6077
<211> 49
<212> PRT
<213> Homo sapiens

5319

```
<220>
<221> SITE
<222> (46)
<223> Xaa equals any of the naturally occurring L-amino acids


<400> 6077
Tyr Arg Gly Arg Glu Ile Ser Lys Val Phe Thr Ser Ser Leu Lys Gly
 1               5                  10                  15

Val Gly Ser Asn Ser Ser Ser Pro Cys Tyr Phe Gly Val Ser His Tyr
            20                  25                  30

Ser Leu Thr His Gln Lys Ile His Ser Phe Lys Cys Leu Xaa Val Leu
        35                  40                  45

Ser



<210> 6078
<211> 38
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (13)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (16)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (25)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (26)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (30)
<223> Xaa equals any of the naturally occurring L-amino acids
```

5320

<400> 6078
Pro Asn Ala Asp Gln Lys Tyr Ser Thr Asp Lys Met Xaa Glu Pro Xaa
1   5   10   15

Val Tyr Val Lys Ser Leu Tyr Thr Xaa Xaa Gly Pro Asp Xaa Tyr Phe
            20   25   30

Leu Leu Leu Ile Gly Gly
            35

<210> 6079
<211> 303
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (10)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (14)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (118)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (147)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6079
Ala Phe Ser Ser Ser Glu Asp Asn Lys Xaa Gly Lys Arg Xaa Arg Thr
1   5   10   15

Asn Ser Arg Ser Thr Pro Thr Thr Pro Gln Gly Lys Pro Glu Thr Thr
            20   25   30

Phe Leu Asp Gln Gly Cys Ser Ser Pro Val Leu Ile Asp Cys Pro His
            35   40   45

Pro Asn Cys Asn Lys Lys Tyr Lys His Ile Asn Gly Leu Arg Tyr His
      50   55   60

Gln Ala His Ala His Leu Asp Pro Glu Asn Lys Leu Glu Phe Glu Pro

5321

```
 65                      70                      75                      80

Asp Ser Glu Asp Lys Ile Ser Asp Cys Glu Glu Gly Leu Ser Asn Val
                85                  90                  95

Ala Leu Glu Cys Ser Glu Pro Ser Thr Ser Val Ser Ala Tyr Asp Gln
            100                 105                 110

Leu Lys Ala Pro Ala Xaa Pro Gly Ala Gly Asn Pro Pro Gly Thr Pro
            115                 120                 125

Lys Gly Lys Arg Glu Leu Met Ser Asn Gly Pro Gly Ser Ile Ile Gly
        130             135                 140

Ala Lys Xaa Gly Lys Asn Ser Gly Lys Lys Lys Gly Leu Asn Asn Glu
145             150                 155                 160

Leu Asn Asn Leu Pro Val Ile Ser Asn Met Thr Ala Ala Leu Asp Ser
                165                 170                 175

Cys Ser Ala Ala Asp Gly Ser Leu Ala Ala Glu Met Pro Lys Leu Glu
            180                 185                 190

Ala Glu Gly Leu Ile Asp Lys Lys Asn Leu Gly Asp Lys Glu Lys Gly
            195                 200                 205

Lys Lys Ala Asn Asn Cys Lys Thr Asp Lys Asn Leu Ser Lys Leu Lys
        210             215                 220

Ser Ala Arg Pro Ile Ala Pro Ala Pro Ala Pro Thr Pro Pro Gln Leu
225             230                 235                 240

Ile Ala Ile Pro Thr Ala Thr Phe Thr Thr Thr Thr Gly Thr Ile
                245                 250                 255

Pro Gly Leu Pro Ser Leu Thr Thr Thr Val Val Gln Ala Thr Pro Lys
            260                 265                 270

Ser Pro Pro Leu Lys Pro Ile Gln Pro Lys Pro Thr Ile Met Gly Glu
            275                 280                 285

Pro Ile Thr Val Asn Pro Ala Leu Val Ser Leu Lys Asp Lys Lys
        290             295                 300
```

<210> 6080
<211> 61
<212> PRT
<213> Homo sapiens

5322

```
<220>
<221> SITE
<222> (49)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6080
Arg Leu Ser Gln His Pro Tyr His Thr Val Gln Lys Ser Glu Leu Gln
 1               5               10              15

Arg Leu Cys Ser Val Ser Trp Ser Thr Ser Lys Phe Val Val Arg Lys
            20              25              30

Val Arg Cys Arg Asn Leu Arg Leu Gln Arg Leu Cys Ser Val Ser Trp
            35              40              45

Xaa Thr Ser Thr Phe Phe Val Val Asn Ile Gln Ser His
    50              55              60


<210> 6081
<211> 77
<212> PRT
<213> Homo sapiens

<400> 6081
Pro Asn Pro Ala Leu Thr Ala Pro Gln Arg Ile Pro Val Ala Ala Gln
 1               5               10              15

Pro Pro Ala Pro Pro Ser Pro Glu Leu Arg Arg Glu Pro Gln Gly Gly
            20              25              30

Ala Met Arg Thr Gly Val Trp Trp Ser Thr Tyr Gly Ser Trp Pro Ala
            35              40              45

Ser Gly Ala Val Ala Gly Arg Pro Leu Ala Phe Ser Asp Ala Gly Pro
    50              55              60

His Val His Tyr Gly Trp Gly Asp Pro Ile Arg Leu Arg
65              70              75


<210> 6082
<211> 44
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (22)
```

<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (33)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6082
Thr Ala Gly Pro Ser His Pro Trp Ile Ser Ser Cys Thr Thr Leu Lys
 1   5   10   15

Leu Glu Gln His Gln Xaa Leu Pro Arg Ser Pro Pro Ala Gln Pro Ser
            20   25   30

Xaa Gly Asn Val Ser Ser Ser Pro Gly Leu Gln Leu
        35   40

<210> 6083
<211> 52
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (10)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (41)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6083
Ala Glu Gly His Glu Arg Glu Arg Ser Xaa Glu Ser Gly Glu Glu Asp
 1   5   10   15

Ser Ser Leu Thr Asp Glu Pro Arg Arg Ala Cys Leu Ser His Pro Ser
            20   25   30

Leu Cys Gln Leu Leu Gly Gly Gln Xaa Pro Ala Leu Arg Asn Ser Pro
            35   40   45

Val Leu Gly Glu
        50

<210> 6084
<211> 78

5324

<212> PRT
<213> Homo sapiens

<400> 6084
Leu Val Leu His Tyr Phe Pro Arg Glu Phe Leu Gln Val Asn Val His
1   5   10   15

Pro Phe Asp Leu Glu Ala Asp Ser Gln Phe Cys Leu Phe Gly Lys Ser
            20   25   30

Ala Ser Glu Leu Asn Phe Leu Val Cys Lys Met Gly Leu Arg Lys Cys
        35   40   45

Gly Leu Leu Phe Gln Arg Leu Leu Leu Gly Trp Asn Glu Ile Met Cys
    50   55   60

Val Thr Lys Ala Leu Glu Thr Phe Trp Asn Leu Lys Ala Ile
65   70   75

<210> 6085
<211> 67
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (45)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (51)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6085
Ala Leu Ser Val Cys Asp Leu Leu Lys Asn Lys Phe Phe Val Lys Glu
1   5   10   15

Asn Thr Ser Leu Lys Asn Glu Lys Ala Ile Leu Ser Leu Ile Asn Leu
            20   25   30

Ile Gln Asp Pro Ser Ile Ile Asn Leu Thr Val Leu Xaa Phe Thr Glu
        35   40   45

Ile Ser Xaa Asn Gln Ser Gln Lys Ile Pro Pro Cys Thr Asn Leu Leu
    50   55   60

Pro Leu His
65

5325

```
<210> 6086
<211> 61
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (31)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (44)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (48)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (55)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6086
Leu Arg Ile Met Thr Pro Leu Val Ser Cys Gly Met Gly Arg Ile Phe
 1               5                  10                  15

Tyr Phe Phe Cys Thr Phe Thr Trp Arg Leu Phe Leu Leu Arg Xaa Phe
              20                  25                  30

Ile Met Gly Phe Lys Ala Leu His Leu Pro Asn Xaa Gly Lys Cys Xaa
              35                  40                  45

Lys Tyr Cys Ile Phe Tyr Xaa Phe Gly Pro Lys Gly Tyr
      50                  55                  60


<210> 6087
<211> 50
<212> PRT
<213> Homo sapiens

<400> 6087
Asn Glu Glu Cys Asn Pro Phe Tyr Lys Met Tyr Thr Leu Cys Tyr Leu
 1               5                  10                  15
```

5326

Leu Leu Asn Phe Gly Leu Val Ile Pro Thr Asp Ala Lys Phe Phe Leu
            20   25   30

Gln Ser Thr Glu Ile Ile Gln Ile Phe Leu His Cys Gln Gln Asp Glu
            35   40   45

Ile Val
    50

<210> 6088
<211> 141
<212> PRT
<213> Homo sapiens

<400> 6088
Trp Lys Lys Tyr Phe Lys Thr Phe Ile Asn Gly Lys Val Val Trp Gly
    1   5   10   15

Ser Trp Phe Asp His Val Lys Gly Trp Glu Met Lys Asp Arg His
            20   25   30

Gln Ile Leu Phe Leu Phe Tyr Glu Asp Ile Lys Arg Asp Pro Lys His
            35   40   45

Glu Ile Arg Lys Val Met Gln Phe Met Gly Lys Lys Val Asp Glu Thr
    50   55   60

Val Leu Asp Lys Ile Val Gln Glu Thr Ser Phe Glu Lys Met Lys Glu
65   70   75   80

Asn Pro Met Thr Asn Arg Ser Thr Val Ser Lys Ser Ile Leu Asp Gln
            85   90   95

Ser Ile Ser Ser Phe Met Arg Lys Gly Thr Val Gly Asp Trp Lys Asn
            100   105   110

His Phe Thr Val Ala Gln Asn Glu Arg Phe Asp Glu Ile Tyr Arg Arg
            115   120   125

Lys Met Glu Gly Thr Ser Ile Asn Phe Cys Met Glu Leu
    130   135   140

<210> 6089
<211> 65
<212> PRT
<213> Homo sapiens

5327

<400> 6089
Asn Lys His Leu Glu Ala Ile Phe Gly Leu Ile Lys Ile Val Leu Gly
 1   5   10   15

Arg Ala Trp Trp Leu Thr Pro Ala Ile Pro Ala Leu Trp Glu Ala Glu
               20   25   30

Asp Ser Gly Phe Leu Glu Leu Arg Ser Trp Glu Thr Ser Leu Gly Asn
           35   40   45

Met Val Ile Pro Val Cys Leu Phe Lys Ile Lys Lys Ile Asn Glu Val
       50   55   60

Met
 65

<210> 6090
<211> 85
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (13)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6090
Val Ala Lys Gly Leu Leu Ser His Leu Cys Pro Pro Xaa Ile Leu Lys
 1   5   10   15

Ala Arg Ser Leu Glu Phe Glu Leu Cys Pro His Met Pro Pro Arg His
               20   25   30

Gln Gln Ser Lys Met Lys Ser Leu His Cys Leu Ser Val Asp Pro Thr
           35   40   45

Leu Ser Pro His Trp Arg Gly Arg Gly Gly Leu Arg Met Ser Ser
       50   55   60

Ser Cys Pro Gly Cys Asn Met Val Lys Asp Glu Arg Lys Glu Met Leu
 65   70   75   80

Gly Ala Ser Leu His
                85

<210> 6091

5328

<210> 90
<212> PRT
<213> Homo sapiens

<400> 6091
Gln Glu Pro Ser Ser Arg Val Ser Cys Phe Lys Ala Pro Tyr Pro Phe
1   5   10   15

Leu Arg Val Thr Asn Thr Cys Ala Arg Ser Leu Pro Phe Pro Ser Ser
                20   25   30

Pro Cys Ile Trp Leu Ile Thr Gly Gln Leu Pro Ala Ser Leu Gln Phe
        35   40   45

Gly Arg Trp Val Gly Asn Asp His His Ser Pro Arg Ser Pro Asp Gly
        50   55   60

Leu Val Phe Arg Ala Leu His Arg His Leu Gln Gln Ala Pro Ala Arg
65   70   75   80

Pro Glu Val Ile Leu Arg Arg Asp Gly Ser
                85   90

<210> 6092
<211> 45
<212> PRT
<213> Homo sapiens

<400> 6092
Leu Gln Leu Trp Ile Ala Tyr Phe Glu Lys Gly Glu Leu Gln Ile Leu
1   5   10   15

Pro Lys Asp Gly Glu Lys His Ile Lys Lys Ile Pro Thr Phe Arg Asn
                20   25   30

Ser Phe Gln Gln Leu Leu Leu Glu Ile Phe Lys Leu Ile
        35   40   45

<210> 6093
<211> 49
<212> PRT
<213> Homo sapiens

<400> 6093
Ile Ser Asp Lys Phe Pro Gly Asn Ala Asp Phe Thr Val Gln Gly Pro
1   5   10   15

5329

His Phe Gly Asn His Thr Asn Arg Asn Leu Met Gln Thr Gln Gly Thr
                20   25   30

Tyr Gln Lys Ile Phe Asn Gln Val Ile Leu His Asp Lys Gly Gln Gln
            35   40   45

Cys

<210> 6094
<211> 58
<212> PRT
<213> Homo sapiens

<400> 6094
Thr Gly Phe His His Val Ser Gln Ala Ser Leu Glu Leu Leu Thr Ser
 1   5   10   15

Gly Asp Pro Pro Ala Ser Ala Ser Gln Ser Ala Gly Ile Thr Gly Ile
                20   25   30

Ser His Arg Ala Trp Pro Asn Asn Trp Asn Ile Phe Ile Met Lys Met
            35   40   45

Ser Ser Ala Leu Pro Lys Glu Thr Thr Asn
        50   55

<210> 6095
<211> 89
<212> PRT
<213> Homo sapiens

<400> 6095
Cys Lys His Cys Ile Ser Tyr Val Glu Met Val Lys Asp Asp Tyr Glu
 1   5   10   15

Asp Asp Ser His Val Phe Arg Lys Pro Ala Asn Asp Ile Thr Ser Gln
                20   25   30

Leu Glu Ile Asn Phe Gly Asn Leu Pro Arg Pro Gly Arg Gly Ala Arg
            35   40   45

Gly Gly Thr Arg Gly Gly Arg Gly Arg Ile Arg Arg Ala Glu Asn Tyr
        50   55   60

Gly Pro Arg Ala Glu Val Val Met Gln Asp Val Ala Pro Asn Pro Asp
65   70   75   80

5330

Asp Pro Glu Asp Phe Pro Ala Leu Ser
                85

<210> 6096
<211> 32
<212> PRT
<213> Homo sapiens

<400> 6096
Lys Leu Lys Met Leu Ala Glu His Phe Val Val Leu Gln Ala Leu Leu
 1   5   10   15

Ile Phe His Cys Ser Thr Cys Cys Trp Gln Ser Asn Phe Ser Glu Leu
              20   25   30

<210> 6097
<211> 65
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (64)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6097
Ala Glu His Cys Ser Pro Ile Leu Val Leu Ile Trp Lys Phe Leu Gly
 1   5   10   15

His Tyr Ala Asp Lys Lys Thr Arg Thr Pro Gly Ala Arg Lys Thr Cys
              20   25   30

Cys Lys Ser Leu Val Cys Ser Tyr Glu Cys Pro Ser Thr Leu Glu Glu
              35   40   45

Ala Leu Asp Ser Pro Val Pro Ser Phe Leu Gly Ala Arg Val Pro Xaa
       50   55   60

Cys
 65

5331

<210> 6098
<211> 47
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (33)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6098
Phe Tyr Cys Tyr Ser Glu Glu Ser Gln Leu Thr Asp Leu Asp Asp Phe
 1   5   10   15

Lys Asp Ala Val Gln Met Arg Glu Gly Cys Lys Tyr Cys Phe Ser Ile
             20   25   30

Xaa Glu Leu Thr Val Ala Lys Val Gly Tyr Ser Ile Glu Ser Leu
         35   40   45

<210> 6099
<211> 165
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (149)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (153)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6099
Ile Arg His Glu Glu Thr Ser Ile Ala Leu Gln Asp Asn Tyr Glu Ile
 1   5   10   15

Arg Tyr Thr Ala Ile Ser Val Ile Lys Asn Leu Leu Ile Lys His Ala
             20   25   30

Phe Asp Thr Arg Tyr Gln His Lys Asn Gln Gln Ala Lys Ile Ala Gln
             35   40   45

Leu Tyr Leu Pro Phe Val Gly Leu Leu Leu Glu Asn Ile Gln Arg Leu
     50   55   60

Ala Gly Arg Asp Thr Leu Tyr Ser Cys Ala Ala Met Pro Asn Ser Ala

5332

```
        65                    70                    75                    80

      Ser Arg Asp Glu Phe Pro Cys Gly Phe Thr Ser Pro Ala Asn Arg Gly
                      85                    90                    95

      Ser Leu Ser Thr Asp Lys Asp Thr Ala Tyr Gly Ser Phe Gln Asn Gly
                      100                   105                   110

      His Gly Ile Lys Arg Glu Asp Ser Arg Gly Ser Leu Phe Pro Glu Gly
                      115                   120                   125

      Ala Thr Gly Phe Pro Asp Gln Gly Asn Thr Gly Glu Asn Thr Arg Gln
              130                   135                   140

      Asn Ser Thr Arg Xaa Ile Val Ser Xaa Tyr Asn Arg Leu Asp Gln Tyr
      145                   150                   155                   160

      Glu Ile Thr Thr Ser
                      165
```

```
<210> 6100
<211> 61
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (44)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6100
Gln Arg Gly Arg Trp Lys Gln Cys Ser Trp Lys Leu Leu Leu Ser Pro
  1               5                   10                  15

Leu Ser His His Ser Arg His Leu Leu Gln Ala Gly Arg His Val Ser
              20                    25                    30

Val Arg Phe Leu Pro Gly Asp Ile Arg Ser Pro Xaa Ile Gln Ile Lys
              35                    40                    45

Cys Asn Ile Leu Gln Thr Ala Leu Leu Arg Glu Ile Ser
      50                    55                    60
```

```
<210> 6101
<211> 156
<212> PRT
<213> Homo sapiens
```

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<220>
<221> SITE
<222> (92)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (110)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (146)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6101
Trp Ile Pro Arg Ala Ser Gly Ile Arg His Glu His Leu Arg Ser His
  1               5                  10                  15

Thr Gln Glu Lys Val Val Ala Cys Pro Thr Cys Gly Gly Met Phe Ala
             20                  25                  30

Asn Asn Thr Lys Phe Leu Asp His Ile Arg Arg Gln Thr Ser Leu Asp
             35                  40                  45

Gln Gln His Phe Gln Cys Ser His Cys Ser Lys Arg Phe Ala Thr Glu
        50                  55                  60

Arg Leu Leu Arg Asp His Met Arg Asn His Val Asn His Tyr Lys Cys
 65                  70                  75                  80

Pro Leu Cys Asp Met Thr Cys Pro Leu Pro Ser Xaa Leu Arg Asn His
             85                  90                  95

Met Arg Phe Arg His Ser Glu Asp Arg Pro Phe Lys Cys Xaa Cys Cys
            100                 105                 110

Asp Tyr Ser Cys Lys Asn Leu Ile Asp Leu Gln Lys His Leu Asp Thr
            115                 120                 125

His Ser Glu Glu Pro Ala Tyr Arg Cys Asp Phe Glu Asn Cys Thr Ser
        130                 135                 140

Val Xaa Asp Pro Leu Leu Tyr Gln Val Pro Leu Pro
145                 150                 155


<210> 6102
<211> 65
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5334

<210> PRT
<213> Homo sapiens

<400> 6102
Phe Cys Leu Leu Leu Ala Gly Glu Glu Ala Met Ser Trp Tyr Ser Gln
1   5   10   15

Trp Ser Gln Asp Pro Glu Cys Val Ala Lys Pro Tyr Thr Ala Phe His
            20   25   30

Gly Leu Phe Leu Gly Ala Arg Val Gly Gly Asp Met Val Leu Gly Ser
        35   40   45

Asn Leu Pro Cys Asn Arg Trp Arg Ala Val Phe Ser Met Ala Pro Ala
    50   55   60

Val
65

<210> 6103
<211> 72
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (10)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (31)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (49)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6103
Leu Gln Val Thr Leu Ser Ser Trp Pro Xaa Ile Ala Pro Arg Leu Phe
1   5   10   15

Leu Pro His Trp Gly Gln Ser Phe Pro Trp Thr Lys Glu Arg Xaa Leu
            20   25   30

Gln Pro Phe Phe Lys Ser Leu Gly Pro Gly Pro Trp His Gln His His
        35   40   45

5335

Xaa Ser Leu Tyr Ser Ile His Gln Lys His Leu Lys Pro Thr Gln Ile
    50   55   60

Cys Ser Met Gly Ser Ile His Val
65   70

<210> 6104
<211> 137
<212> PRT
<213> Homo sapiens

<400> 6104
Val Tyr Lys Tyr Leu Phe Phe Lys Arg Arg Cys Cys Ala Cys Glu Thr
 1   5   10   15

Ile Leu Phe Phe Phe Phe Phe Phe Phe Phe Phe Leu Val Thr Ala
            20   25   30

Lys Asp Arg Glu Pro Phe His Phe Gly His Thr Gly Leu Leu Ser Arg
        35   40   45

Ser His Phe Ser Ser Trp Leu Leu Lys Ile Thr Ala Ser Pro Val Pro
    50   55   60

Ser Trp Arg Ser Ser Arg Gly Arg Ala Asp Phe Ser Pro Thr Gly Gly
65   70   75   80

Thr Met Trp Gly Ser Glu Gly Trp Glu Gly Asp Phe Pro Leu Glu Trp
            85   90   95

Trp Ser Cys Trp Gly Leu Ile Ser Arg Asp Pro Lys Gly Gly Leu Cys
            100   105   110

Arg Arg Phe His Ile Gly Gly Ala Leu Ser Leu Ala Ala Val Arg Val
        115   120   125

Gly Pro Gly Cys Gly Val Gln Thr Ala
    130   135

<210> 6105
<211> 65
<212> PRT
<213> Homo sapiens

<400> 6105
Gly Asn Ser Arg Val Asp Pro Arg Val Arg Arg Asn Val Thr Arg Val
 1   5   10   15

```
Arg Gly Ser Tyr Leu Tyr Ile Gly Phe Pro Ala Glu Asn Arg Pro Leu
            20              25              30

Leu Tyr Arg Phe Trp Val His Asn Leu Ala Leu Leu Val Asn Pro Arg
            35              40              45

Asp Leu Ser Asp Pro Pro Pro Pro Val Phe Phe Leu Phe Leu Phe Leu
    50              55              60

Phe
65
```

```
<210> 6106
<211> 50
<212> PRT
<213> Homo sapiens

<400> 6106
Tyr Tyr Lys Ser Tyr Cys Thr His Phe Val Leu Glu Lys Asn Thr Glu
 1           5               10              15

Ala Val Ala Gln Thr Leu Phe Asn Ile Arg Glu Phe Ile Leu Glu Lys
            20              25              30

Asn Pro Ala Asn Val Met Asn Leu Glu Lys His Phe Phe Ser Lys Thr
            35              40              45

Thr Ala
    50
```

```
<210> 6107
<211> 67
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (46)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (47)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6107
```

5337

Val Asp Arg Ala Ile Ser Ile Thr Leu Arg Pro Leu Trp Val Ile Gly
1   5   10   15

Ala Asp Lys Val Pro Cys Ile Ala Asp Glu Ile Ser Pro Ser Trp Thr
            20   25   30

Phe Pro Arg Asn Gly Pro Gly Val Ser Ser Asn Leu Ser Xaa Xaa Ile
        35   40   45

Thr Cys Leu Glu Ile Thr Leu Glu Tyr Val Ser Tyr Lys Ala Arg Ser
    50   55   60

His Gly Asn
65

<210> 6108
<211> 47
<212> PRT
<213> Homo sapiens

<400> 6108
Thr Arg Glu Arg Arg Gly Gly Asn Met Lys Val Asn Leu Asn Asn Phe
1   5   10   15

Cys Asn Thr Ser Tyr Leu Gln Thr Ile Gly Phe Met Leu Leu His Ser
            20   25   30

Arg Cys Asp Leu Ser Tyr Val Ser Asp Arg Phe Tyr Glu Leu Phe
        35   40   45

<210> 6109
<211> 122
<212> PRT
<213> Homo sapiens

<400> 6109
Gly Pro Ala Lys Gly Gly Lys Lys Lys Asp Pro Asn Ala Pro Lys
1   5   10   15

Arg Pro Pro Ser Gly Phe Phe Leu Phe Cys Ser Glu Phe Arg Pro Lys
            20   25   30

Ile Lys Ser Thr Asn Pro Gly Ile Ser Ile Gly Asp Val Ala Lys Lys
        35   40   45

Leu Gly Glu Met Trp Asn Asn Leu Asn Asp Ser Glu Lys Gln Pro Tyr
    50   55   60

5338

```
Ile Thr Lys Ala Ala Lys Leu Lys Glu Lys Tyr Glu Lys Asp Val Ala
65                  70                  75                  80

Asp Tyr Lys Ser Lys Gly Lys Phe Asp Gly Ala Lys Gly Pro Ala Lys
                    85                  90                  95

Val Ala Arg Lys Lys Val Glu Glu Glu Asp Glu Glu Glu Glu Glu Glu
            100                 105                 110

Glu Glu Glu Glu Glu Glu Glu Glu Asp Glu
        115                 120
```

```
<210> 6110
<211> 82
<212> PRT
<213> Homo sapiens

<400> 6110
Val Asp Phe Leu Phe Ala Ile Asn Gln Ala Lys Val Asn Ala Ile Ile
 1               5                  10                  15

Ser Arg Phe Met Val Asn Lys Phe Glu Val Trp Ile Asn Leu Ser His
                20                  25                  30

Ile Phe Tyr Cys Ser Leu Val Lys Lys Gly Thr Arg Lys Lys Ile Ser
            35                  40                  45

Ser Ser Leu Val Leu Ser Gln Cys Gly Asp Cys Arg Lys Leu Thr Met
        50                  55                  60

Pro Ala Cys Val Asn Val Trp Leu Thr Val Lys Ala Ser Phe Leu Ala
65                  70                  75                  80

Ala Cys
```

```
<210> 6111
<211> 34
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (34)
<223> Xaa equals any of the naturally occurring L-amino acids
```

5339

<400> 6111
Met Val Leu Arg Lys Tyr Phe Leu Trp Lys Ile Gly Arg Lys Tyr Phe
1   5   10   15

Asn Leu Asn Ile Lys Lys Ile Gly Asn Cys Tyr Phe Gln Gln Gln Ser
            20   25   30

Pro Xaa

<210> 6112
<211> 87
<212> PRT
<213> Homo sapiens

<400> 6112
Gly Ser Pro Gly Ala His Glu Pro Cys Gln Ala Pro Ala Gly Ser Ser
1   5   10   15

Arg His Val Pro Asp Leu Trp Gly Pro Arg Glu Gly Thr Phe Pro Ser
            20   25   30

Trp Glu Arg Arg Arg Ser Gly Gln Leu Gly Glu Gly Cys Glu His Phe
        35   40   45

Pro Pro Gly Arg Asp Gln Gly Asp Leu His Ala Leu Arg Arg Ala Trp
    50   55   60

Lys Gly Ser Glu Lys Pro Ala Asp Arg Pro Cys Pro Ser Ser Arg Asp
65   70   75   80

His Leu Met Asn His Val Phe
                85

<210> 6113
<211> 253
<212> PRT
<213> Homo sapiens

<400> 6113
Gln Asn Leu Pro Leu Thr Arg Arg Arg Pro Thr Gly Ser Cys Val Cys
1   5   10   15

Leu Gly Arg Gly Gly Pro Gly Gly Gly Leu Arg Ala Gly Ser Arg
            20   25   30

His Pro Ala Pro Ala Ala Met His Pro Arg Arg Pro Asp Gly Phe Asp

5340

```
                35                    40                    45

Gly Leu Gly Tyr Arg Gly Gly Ala Arg Asp Glu Gln Gly Phe Gly Gly
        50              55              60

Ala Phe Pro Ala Arg Ser Phe Ser Thr Gly Ser Asp Leu Gly His Trp
65              70              75                      80

Val Thr Thr Pro Pro Asp Ile Pro Gly Ser Arg Asn Leu His Trp Gly
                85              90              95

Glu Lys Ser Pro Pro Tyr Gly Val Pro Thr Thr Ser Thr Pro Tyr Glu
                100             105             110

Gly Pro Thr Glu Glu Pro Phe Ser Ser Gly Gly Gly Ser Val Gln
        115             120             125

Gly Gln Ser Ser Glu Gln Leu Asn Arg Phe Ala Gly Phe Gly Ile Gly
        130             135             140

Leu Ala Ser Leu Phe Thr Glu Asn Val Leu Ala His Pro Cys Ile Val
145             150             155             160

Leu Arg Arg Gln Cys Gln Val Asn Tyr His Ala Gln His Tyr His Leu
                165             170             175

Thr Pro Phe Thr Val Ile Asn Ile Met Tyr Ser Phe Asn Lys Thr Gln
                180             185             190

Gly Pro Arg Ala Leu Trp Lys Gly Met Gly Ser Thr Phe Ile Val Gln
        195             200             205

Gly Val Thr Leu Gly Ala Glu Gly Ile Ile Ser Glu Phe Thr Pro Leu
        210             215             220

Pro Arg Glu Val Leu His Lys Trp Ser Pro Lys Gln Ile Gly Glu His
225             230             235             240

Leu Leu Leu Lys Ser Leu Asn Leu Arg Gly Gly Asn Ala
                245             250
```

<210> 6114
<211> 168
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (9)

5341

<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (115)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6114
Ile Leu Phe Cys Pro Ala Ala Ala Xaa Lys Ala Ser His Pro Thr Pro
 1   5   10   15

Arg Thr Phe Leu Val Arg Ser Gly Leu Ala Trp Gly Pro Pro Phe Ser
                20   25   30

Val Ser Leu Val Cys Leu Tyr Pro Ala Leu Leu Ser Ser Leu Cys Ser
                35   40   45

Ala Cys Leu Ser Leu Phe Ala Ser Pro Phe Ser Leu Ser Cys Arg Leu
    50   55   60

Leu Ser Leu Gly Pro Pro Trp Phe Cys Leu Val Ser Leu Ser Leu Leu
65   70   75   80

Ile Ser Ser Leu Tyr Ser Phe Ser Arg Ala Gly Pro Thr Gly Arg Thr
                85   90   95

Arg Leu Ser Gln Ile Asn Pro His Thr Asn Lys Ile Gln Asn Gln Ile
                100   105   110

Pro Leu Xaa Thr Gly Ala Gly Thr Leu Arg Arg Ser Arg Ile Lys Leu
        115   120   125

Phe Ser Val Ser Glu Ala Leu Leu Thr Cys Val Cys Val Cys Val Cys
    130   135   140

Val Leu Gly Glu Gly Asp Leu Asp Cys Ser Ile Arg Thr Leu Ser Glu
145   150   155   160

Thr Glu Gly Arg Trp Glu Asp Asp
                165

<210> 6115
<211> 180
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (140)

5342

<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (157)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (169)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6115

```
His Glu Val Glu Asn Asn Thr Leu Gly Ser Pro Ala Ala Ser Glu Leu
 1               5                  10                  15

Leu Glu His Leu Lys Pro Thr Tyr Trp Phe Ser Ala His Leu His Val
            20              25                  30

Lys Phe Ala Ala Leu Met Gln His Gln Ala Lys Asp Lys Gly Gln Thr
        35                  40                  45

Ala Arg Ala Thr Lys Phe Leu Ala Leu Asp Lys Cys Leu Pro His Arg
    50                  55                  60

Asp Phe Leu Gln Ile Leu Glu Ile Glu His Asp Pro Ser Ala Pro Asp
65                  70                  75                  80

Tyr Leu Glu Tyr Asp Ile Glu Trp Leu Thr Ile Leu Arg Ala Thr Asp
            85                  90                  95

Asp Leu Ile Asn Val Thr Gly Arg Leu Trp Asn Met Pro Glu Asn Asn
            100                 105                 110

Gly Leu His Ala Arg Trp Asp Tyr Ser Ala Thr Glu Glu Gly Met Lys
        115                 120                 125

Glu Val Leu Glu Lys Leu Asn His Asp Leu Lys Xaa Pro Cys Asn Phe
    130                 135                 140

Ser Val Thr Ala Ala Cys Tyr Asp Pro Ser Lys Pro Xaa Thr Gln Met
145                 150                 155                 160

Gln Leu Ile His Arg Ile Asn Pro Xaa Thr Thr Glu Phe Cys Ala Gln
                165                 170                 175

Leu Gly Ile Ile
            180
```

5343

```
<210> 6116
<211> 63
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (31)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6116
Asn Tyr Lys Ile Cys Met Tyr Leu Ala Leu Asn His Asn Leu Lys Tyr
 1               5                  10                  15

Phe Met Asn Ser Phe Thr Ser Ile Asp Ser Gln Asn Ser Asn Xaa Lys
            20                  25                  30

Leu Ala Ser Glu Pro Val Arg Thr Pro Pro His Pro Ser Ser Cys Leu
        35                  40                  45

Asp Leu Ser Thr Ala Ile Ile Leu Cys Lys Ala Val Val Leu Thr
     50                  55                  60


<210> 6117
<211> 72
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (6)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (10)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (60)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (62)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
```

5344

<221> SITE
<222> (69)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6117
Thr Leu Thr Lys Gly Xaa Lys Ser Trp Xaa Ser Thr Ala Val Thr Thr
 1   5   10   15

Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn Ser Ala Arg Ala
                20   25   30

Gln Leu Thr Arg Cys Gln Leu Gly Ser Cys Ser Gly Gly Arg Lys Arg
             35   40   45

Leu Arg Arg Phe Pro Ala Leu Ser Pro Gln Pro Xaa Arg Xaa Ser Gly
         50   55   60

Ser Gln Asp Val Xaa Phe Asp Asp
65   70

<210> 6118
<211> 257
<212> PRT
<213> Homo sapiens

<400> 6118
Pro Arg Val Arg Ala Phe Ala Gly Val Pro Thr Arg Gly Arg Thr Arg
 1   5   10   15

Gly Gln Ser Arg Arg Cys Ala Ala Glu Ala Ser Ala Gly Pro Glu Arg
                20   25   30

Asp Ala Arg Pro Gly Ala Pro Ala Ala Gly Thr Met Gly Ala Ala His
             35   40   45

Ser Ala Ser Glu Glu Val Arg Glu Leu Glu Gly Lys Thr Gly Phe Ser
         50   55   60

Ser Asp Gln Ile Glu Gln Leu His Arg Arg Phe Lys Gln Leu Ser Gly
65   70   75   80

Asp Gln Pro Thr Ile Arg Lys Glu Asn Phe Asn Asn Val Pro Asp Leu
                85   90   95

Glu Leu Asn Pro Ile Arg Ser Lys Ile Val Arg Ala Phe Phe Asp Asn
                100   105   110

Arg Asn Leu Arg Lys Gly Pro Ser Gly Leu Ala Asp Glu Ile Asn Phe
             115   120   125

5345

Glu Asp Phe Leu Thr Ile Met Ser Tyr Phe Arg Pro Ile Asp Thr Thr
    130   135   140

Met Asp Glu Glu Gln Val Glu Leu Ser Arg Lys Glu Lys Leu Arg Phe
145   150   155   160

Leu Phe His Met Tyr Asp Ser Asp Ser Asp Gly Arg Ile Thr Leu Glu
                165   170   175

Glu Tyr Arg Asn Val Val Glu Glu Leu Leu Ser Gly Asn Pro His Ile
            180   185   190

Glu Lys Glu Ser Ala Arg Ser Ile Ala Asp Gly Ala Met Met Glu Ala
            195   200   205

Ala Ser Val Cys Met Gly Gln Met Glu Pro Asp Gln Val Tyr Glu Gly
    210   215   220

Ile Thr Phe Glu Asp Phe Leu Lys Ile Trp Gln Gly Ile Asp Ile Glu
225   230   235   240

Thr Lys Met His Val Arg Phe Leu Asn Met Glu Thr Met Ala Leu Cys
                245   250   255

His

<210> 6119
<211> 94
<212> PRT
<213> Homo sapiens

<400> 6119
Leu Ser Ser Gly Ala Glu Gly Asp Pro Gly Ser Leu Thr Gly Arg Ala
  1   5   10   15

Phe Phe Phe Thr Thr Thr Trp Ala Glu Val Arg Glu Phe Cys His Thr
            20   25   30

Gly Gly Arg Val Thr His Gln Gly Gly Met Trp Leu Gln Gln Ala Lys
            35   40   45

Gly His Arg Lys Gly Gly Ala Gly Asp Ser Arg Val Ala Ala Thr Leu
        50   55   60

Val Gly Trp Gly Gly Ala Gly Gly Arg Ser Asn Arg Asp Gly Val Gly
65   70   75   80

5346

Leu Lys Lys Ser Phe Phe Phe Ser Phe Phe Lys Gln Lys Lys
                    85   90

<210> 6120
<211> 120
<212> PRT
<213> Homo sapiens

<400> 6120
Arg Tyr Phe Leu Lys Met Ala Lys Ile Leu Thr Thr Pro Lys Phe Ala
 1   5   10   15

His Ala Phe Arg Asn Leu Thr Phe Glu Gly Tyr Asp Gly Pro Val Thr
            20   25   30

Leu Asp Asp Trp Gly Asp Val Asp Ser Thr Met Val Leu Leu Tyr Thr
        35   40   45

Ser Val Asp Thr Lys Lys Tyr Lys Val Leu Leu Thr Tyr Asp Thr His
    50   55   60

Val Asn Lys Thr Tyr Pro Val Asp Met Ser Pro Thr Phe Thr Trp Lys
65   70   75   80

Asn Ser Lys Leu Pro Asn Asp Ile Thr Gly Arg Gly Pro Gln Ile Leu
                85   90   95

Met Ile Ala Val Phe Thr Leu Thr Gly Ala Val Val Leu Ser Cys Arg
            100   105   110

Arg Ser Pro Asp Ala Gln Lys Ile
        115   120

<210> 6121
<211> 72
<212> PRT
<213> Homo sapiens

<400> 6121
Arg Pro Glu Gly Ala Gln Leu Cys Pro Gln Gly Lys Leu Lys Ser Pro
 1   5   10   15

Ala Leu Ser Ala Leu Gly Pro Cys Arg Ala Val Arg Val Glu Leu Pro
            20   25   30

Pro Gln Thr Leu Arg Ser His Ala Val His Ser Ser Ser Trp Ile Ser
            35   40   45

5347

```
Leu Arg Thr Phe Val Leu Ala Tyr Leu Asn Asp Leu Ser Thr Glu Thr
     50                  55                  60

Pro Gly Cys Leu Pro Leu Pro Leu
 65                  70
```

```
<210> 6122
<211> 34
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (3)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (25)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6122
Val Leu Xaa Ser Ile Pro Phe Ile Ile Ser Tyr Val Ile Ser Leu Ser
  1               5                  10                  15

Phe Leu Val Gly Ser Lys Thr His Xaa Gln Phe Ser Gln Ser Ser Met
             20                  25                  30

Asp Ile
```

```
<210> 6123
<211> 69
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (8)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (19)
<223> Xaa equals any of the naturally occurring L-amino acids
```

5348

<220>
<221> SITE
<222> (30)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6123

```
Ser Ser Phe Pro Gln Pro Pro Xaa His Gly Trp Val Gly Glu Ala Arg
 1               5               10              15

Arg Asn Xaa Leu Arg Gln Glu Val Ala Ala Ala Gln Val Xaa Leu Leu
            20              25              30

Ala Ser Glu Pro Thr Glu Val Arg Ser Gly Arg Trp Thr Cys Pro Pro
        35              40              45

Asn Val Pro Asp Ser Gly Ser Cys Cys His Trp Ile Ser Trp His Gly
    50              55              60

Arg Gln Lys Glu Arg
65
```


<210> 6124
<211> 80
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (73)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (80)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6124

```
Thr Pro Ala Pro Pro Ser Pro Ala Ala Ala Arg Glu Ser Thr Arg Arg
 1               5               10              15

Val Ala Ile Asn Val Arg Ala Ser Ile Ala Leu Ser Ser Ser Leu Arg
            20              25              30

Thr Leu Val Leu Pro Arg Leu Thr Pro Thr Ser Pro Gly Pro Arg Gly
        35              40              45

Trp Gly Asn Leu Ala Val Pro Arg Leu Ser Asn Lys Ala Val Leu Ser
    50              55              60
```